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ABSTRACT

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education, coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education, in an attempt to collect and detail environmental education efforts throughout the nation. The series is assembled in geographical groupings, using combinations of the U.S. Office of Education regions. This second volume in the series includes Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania, Puerto Rico, Virginia, and West Virginia. Environmental education information from these states is provided under the following headings: State Environmental Education Contact; State Plan Activities; School Programs and Activities (or Environmental Education Programs Funded); University and College Programs and Activities; Groups and Agencies with Interest in Environmental Education, Resource Materials Available; and Possible Resource People. Related documents are SE 017 101 and SE 017 103 through SE 017 105. (JR)

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ED 087624

STATE DIRECTORIES IN ENVIRONMENTAL EDUCATION

based on information supplied by

The United States Office of Environmental Education

and

State Coordinators for Environmental Education

Coordinated by

John F. Disinger and Beverly M. Lee

Volume II - U.S. Office of Education Regions II and III

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ERIC Information Analysis Center for
Science, Mathematics, and Environmental Education
400 Lincoln Tower
The Ohio State University
Columbus, Ohio 43210

November, 1973

SE 017 102

PREFACE

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education (USOE/EE), coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education (ERIC/SMEAC), in an attempt to collect and detail environmental education efforts throughout the nation.

The compilation was begun in 1972 as part of a contract between USOE/EE and ERIC/SMEAC. Initial input was obtained from the files of the USOE/EE and assembled by Ms. Joan M. Nicholson, Ms. Catherine Barnett, and Mr. Andrew B. Rosenberg of that office, working under the direction of Mr. Paul Cromwell, USOE/EE, and Dr. John F. Disinger, ERIC/SMEAC.

Coordinators of environmental education at the state level were asked to review the information for their respective states in detail, and have made numerous additions, deletions, and other corrections. In cases where such a review was not obtained, information based on original 1972 data from USOE/EE has been utilized.

Because the field of environmental education is dynamic, many revisions have been necessary, and will continue to be so. Therefore, inaccuracies in this and other volumes in the series will generally reflect inability to keep up with change in the field, though doubtless other errors of both commission and omission will be noted. ERIC/SMEAC will appreciate any information regarding such errors, both to keep its own files updated and for future editions of these directories.

The series is assembled in geographical groupings, using combinations of the U. S. Office of Education regions, and is available only through Educational Document Reproduction Service (EDRS). Contents of each document are listed on the next page. Also noted for each entry is recentness of update information: entries not marked with asterisks have been updated since June 1, 1973; those marked by single asterisks were reviewed by state coordinators in late 1972 or early 1973; those marked by double asterisks have not been reviewed by state coordinators.

In addition to those named above, substantive assistance has been received from: George Lowe, USOE/EE; Robert W. Howe and Robert E. Roth, ERIC/SMEAC; Mrs. Robert L. Steiner and Mrs. Stanley L. Helgeson, typists; and coordinators for environmental education in the various states, as named within the individual entries.

John F. Disinger and Beverly M. Lee
Coordinators

November, 1973

This publication was prepared pursuant to a contract with the National Institute of Education, United States Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent National Institute of Education position or policy.

Contents of the Volumes in the "State Directories" Series

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Delaware
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California
Colorado*
Hawaii
Idaho
Montana
Nevada*
North Dakota
Oregon
South Dakota**
Utah
Washington
Wyoming

* Entry updated by state coordinator between September 1, 1972 and June 1, 1973.

** No update information received from state coordinator; entry based on information supplied in Spring, 1972 by USOE/EE.

All other entries have been reviewed and updated by state coordinators for environmental education since June 1, 1973.

DELAWARE

STATE E.E. CONTACT:

John F. Reiher
State Supervisor of Science and Environmental Education
Department of Public Instruction
Dover, Delaware 19901
(302) 678-4885

STATE PLAN ACTIVITIES:

There is no state plan for environmental education in Delaware in light of the fact that environmental education is an integral part of the science and social science in school.

ENVIRONMENTAL EDUCATION PROGRAMS:

John F. Reiher
State Supervisor of Science and Environmental Education
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901
(302) 678-4885

The State Department of Public Instruction is the sole K-12 educational agency with the primary responsibility for the curriculum development, dissemination, and implementation of environmental education programs for the Delaware K-12 schools.

Thomas M. Baker
Office of Science & Environmental Education
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901
(302) 678-4885

Editor of the environmental education newsletter, "Relations," to provide the K-12 teachers with current information on environmental education and how the program may be implemented into the existing programs.

The "Relations" newsletter was published four times during the 1972-73 school year. Each newsletter focuses on a single topic presenting inter-disciplinary, multigrade activities for use in the classroom. An up-to-date bibliography is included in each edition with materials channeled toward grade levels for use by both teachers and students. The coming year has plans set for five editions of the newsletter.

John F. Reiher
State Supervisor for Science and Environmental Education
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901
(302) 678-4885

Development of curriculum materials for use in formal and nonformal eudcation activities which provide inservice programs for teachers to become acquainted with the curriculum materials available for use in the K-12 program.

Thomas S. Hounsell
Alexis I. duPont School District
Central Administrative Office
4031 Kennett Pike
Greenville, Delaware 19807

Mr. Hounsell is project Director for Curriculum development of K-12 materials which focus on population education as it relates to the environment.

Dennis Rielly
Alfred I. duPont School District
Central Administrative Office
4 Mt. Lebanon Road
Wilmington, Delaware 19803
(302) 478-5000

Development and implementation of K-6 S.A.P.A. programs and environmental education for principals, for the Alfred I. duPont School District, the Del Mod System, Appoquinimink School District, Capital School District, and the Marshallton-McKean School District.

Roger Daum
New Castle-Gunning Bedford School District
Central Administractive Office
Blount Road
New Castle, Delaware 19720

E.S.E.A. Title III project for the development of the environmental education curriculum for the New Castle-Gunning Bedford and De La Warr School Districts.

Jack Rockwell
Mount Pleasant School District
Central Administrative Office
Washington St. Ext. & Marsh Rod.
Wilmington, Delaware 19809
(302) 762-6110

Camp Out program which is to provide camping environmental education experiences for the elementary student.

Dr. Maura Geens
Milford School District
Central Administrative Office
906 Lakeview Avenue
Milford, Delaware 19963
(302) 422-6601

The Sea Beside Us program to provide environmental education experiences for the students and teachers which focusses on the marine ecology. The project has been funded by E.S.E.A. Title III and the State Department of Public Instruction. The project under this aspect has terminated as of June 30, 1973.

Carol Watling
Milford School District
Central Administrative Office
906 Lakeview Avenue
Milford, Delaware 19963
(302) 422-6601

The Sea Beside Us for the Special Child. This program is an out growth of the "Sea Beside Us" which focuses on the special education students and teachers, and is funded through the State Department of Public Instruction.

Catherine Bonney
Newark School District
Central Administrative Office
83 E. Main Street
Newark, Delaware 19720
(302) 731-2000

Outdoor Laboratory which is a program of environmental education experiences which focus on the use of outdoor classroom concepts. Originally was an E.S.E.A. Title III project, now completely operated by the school district.

Lloyd W. Harrington, Principal
Laurel Senior High School
1133 S. Central Avenue
Laurel, Delaware 19956
(302) 875-7548

Outdoor Education Center. In cooperation with Soil Conservation Service an outdoor education center has been developed for multidisciplinary environmental education curriculum.

Mike Riska
Delaware Nature Education Center
Brandywine Creek State Park
P. O. Box 3900
Greenville, Delaware 19807
(302) 658-0204

Mr. Riska is Project Director of the Environmental Education Field Studies, an environmental education program to assist teachers at the elementary level with environmental education as it relates to the Wilmington schools. It is sponsored by the Wilmington School District and the Delaware Nature Education Center.

James Gussett
Barbara Logan
Del Mod System
P. O. Box 192
Dover, Delaware 19901
(302) 678-4513

Field Agent Activities program provides teachers assistance by on site group and/or individual inservice to implement curriculum changes in environmental education. It is sponsored by the Del Mod System and the State Department of Public Instruction.

Barbara Giebelhaus
Ralph Hazelton
Eleanor Sloan
Del Mod Resource Centers
c/o Del Mod System
P. O. Box 192
Dover, Delaware 19901
(302) 678-4513

The Del Mod System Resource Centers provide a curriculum center for each of Delaware's counties where teachers can evaluate what is available and borrow to try before implementation.

C. H. Purnell, Director
The Del Mod System
P. O. Box 192
Dover, Delaware 19901
(302) 678-4513

The Del Mod System is a voluntary coordinating system officially developed under the Augmented Council of Presidents of the higher education institutions and the State Department of Public Instruction for the improvement of science, environmental, and mathematics education in the K-12 schools.

Norman Wilder
Delaware Nature Education Center, Inc.
Brandywine Creek State Park
P. O. Box 3900
Greenville, Delaware 19807
(302) 658-0204

The Delaware Nature Education Center, Inc. maintains a program for teacher training and curriculum development and a reference and curriculum library, educational exhibit, nature trails, and student program; it has a volunteer program of members of Junior League, and it has focused on a program for the Wilmington schools.

Otis D. Fineher
State Conservationist
New Castle County:
Wilmer Ainst
U.S.D.A. Soil Conservation Service
805 Newport Gap Pike
Newport, Delaware 19804
or
Kent County: Fred Mott
U.S.D.A. Soil Conservation Service
2319 South duPont Highway
Dover, Delaware 19901

The School Site Guide for Environmental Education program guides to assist teachers in developing the local school site for environmental education. The program is in cooperation with the Soil Conservation Service and the State Department of Public Instruction.

Dr. Robert Stegner
Delaware Conservation Education Association
P. O. Box 45
Dover, Delaware 19901

A nonprofit private group of individuals concerned with environmental education. Major contribution has been "Crisis in the Estuary" and a plan for environmental education.

Charles Mohr
Chief Naturalist
Division of Park, Recreation, and Forestry
Department of Natural Resources and Environmental Control
Tatnall Building
Dover, Delaware 19901

Programs at Brandywine Creek State Park, Lums Pond State Park, and Cape Henlopen State Park, which provides for nature center and environmental education areas.

Mrs. Elizabeth Caulk
Educational Information Officer
Department of Natural Resources and Environmental Control
Tatnall Building
Dover, Delaware 19901

The department endeavors to keep the general citizenry and specialists in environmental problems abreast of current developments. Also, publishers of magazine, "Delaware Conservationist," on a quarterly basis which focuses on environmental implications. Coordinates with State Supervisor of Science and Environmental Education with school-related problems.

M. Milford Caldwell
President, Delaware Academy of Science
Iron Hill Museum
Old Baltimore Pike
Newark, Delaware 19711

The Delaware Academy of Science maintains natural history display and nature trails at the Iron Hill Museum in Newark.

Thomas McAndrews, Ranger
Bombay Hook National Wildlife Reserve
Leipsic, Delaware

The Reserve maintains nature center trails and observation towers in the marsh reserve areas. Also has Youth Conservation Corps program for the three neighboring school districts, and provides learning center for students.

Robert Stegner
Val Arnsdorf
College of Education
Hall Education Building
University of Delaware
Newark, Delaware 19711
(302) 738-2184, 2891

Population Curriculum Study - a program to produce teacher materials within a conceptual framework on K-12 basis.

Robert Stegner
College of Education
Hall Education Building
University of Delaware
Newark, Delaware 19711

Marine Science Curriculum Project - a program which focuses on curriculum development in area of marine science.

Robert Stegner
Norman Dill
College of Education
Hall Education Building
University of Delaware
Newark, Delaware 19711

"Man and His Planet" Lecture Series - a programmed lecture series in environmental topics offered at the University of Delaware and Delaware State College.

Norman Dill
Delaware State College
Dover, Delaware 19901

Department of Agriculture and Natural Resources - provides a program to assist teachers in developing environmental education program in the school districts in Kent County. Also coordinates with other agencies and other community services.

Edmund H. Harvey
Delaware Wild Lands, Inc.
1014 Washington Street
Wilmington, Delaware 19809
(302) 654-1290

The group seeks to further the preservation of lands for their ecological and natural resources value and has developed a film on environmental problems in wetlands.

Delaware Ecology Center
Delaware League for Planned Parenthood
825 Washington Street
Wilmington, Delaware

Arthur Ostheimer
Delaware Bay Marine Science Institute
Fort Christina Lab
Wilmington, Delaware 19801
(302) 652-3848

John Stenger
Environmental Institute
126 Gills Neck Road
Lewes, Delaware 19958
(302) 645-8354

Program of environmental education which focuses on marine science and teacher training.

C. H. Purnell
Del Mod System
P. O. Box 392
Dover, Delaware 19901
(302) 678-4513

Individual Teacher Curriculum Projects - small grants for teachers to develop curriculum programs for their individual causes or schools.

John F. Reiher
State Supervisor of Science and Environmental Education
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901
(302) 678-4885

Youth Activities for Environmental Education - coordination of environmental programs with the schools and sponsoring agencies.

1. Clean Air Week
2. Earth Week
3. Johnny Horizon project
4. Smokey the Bear project
5. National Youth Conference on Science and Environment
6. Science and Humanities Symposium
7. Etc.

Thomas M. Baker
Jaycee Environmental Improvement State Chairman
16 Heron Court
Brookmont Farms
Newark, Delaware 19711
(302) 328-0669

Activities involve community awareness of environmental problems as well as action-oriented projects to solve some community problems. Serves as a liaison for the Jaycees with other environmental groups.

Thomas M. Baker
John F. Reiher
P. O. Box 395
Dover, Delaware 19901
(302) 678-4885

"Environment and You" series - program of media activities to assist teachers in presenting environmental problems for students, K-8.

Thomas Pledgie
Caesar Rodney School District
Central Administrative Office
Old North Road, Box 188
Camden-Wyoming, Delaware 19934

Project T.R.E.A.T. - E.S.E.A. project which focuses on summer activities for the above average elementary student which centers on how the environment effects our life.

Dr. William S. Gaither, Dean
College of Marine Studies
University of Delaware
Newark, Delaware 19711

Graduate programs in marine studies in conjunction with a Sea Grant Project. Program focuses at the Marine Studies Lab in Lewes, Delaware.

Dr. William McDaniel, Dean
College of Agricultural Services
University of Delaware Newark, Delaware 19711

Programs for assistance to teachers for applying environmental education principles at main campus and through the extension service.

Hudson Hoen, III
Environmental Director
DelMarVa Power and Light Company
P. O. Box 231
Wilmington, Delaware 19801

Environmental Affairs - assistance with materials and speakers regarding environmental education and the energy power crisis.

John F. Reiher
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901

Environmental Ed Films - Films are available to the schools through the State Film Library.

John F. Reiher
Thomas M. Baker
State Department of Public Instruction
Townsend Building
Dover, Delaware 19901

Gripen - Environmental Learning Center - Environmental awareness project for lower New Castle County. Proposed to go into operation in Spring of 1974.

DISTRICT OF COLUMBIA

STATE E.E. CONTACT:

Ethel J. Hackney, Director
Environmental Education Project
Public Schools of the District of Columbia
Department of Science
Presidential Building
415-12th Street, N.W.
Washington, D.C. 20004

STATE PLAN ACTIVITIES:

A proposal from the Planning Committee for E.E. was funded by the Office of E.E./HEW for FY 72.

SCHOOL PROGRAMS AND ACTIVITIES:

D.C. Public Schools
Ethel J. Hackney, Assistant Director
Department of Science
Director of UEEP (Urban Environmental Education Project)
D.C. Department of Education

A Title III Project developing a comprehensive Program in Urban Environmental Education. Federal City College had a grant from OEE/HEW for FY 71 to gather information about the district.

The Institute for Environmental Systems Analysis and Management
The American University
Massachusetts and Nebraska Avenues, N.W.
Director: Martha Corcoran Sager

Clean Water Foundation
Box 19052
Washington D.C. 20036
Exec Director: Robert Michaels
833-3935

Bureau of Outdoor Recreation
Department of the Interior
Division of Information
19th and C Streets S.W.
Washington D.C. 20240

Federal Water Pollution Control Administration
Clean Water Publications
U.S. Department of the Interior
Washington, D.C. 20242

Forest Service
U.S. Department of Agriculture
Information and Education
Room 3223 S. Agriculture Building
Washington, D.C. 20250

Soil Conservation Service of the U.S. Department of Agriculture
Educational Relations Department
U.S. Department of Agriculture
A. Building, Room 6207
Washington, D.C. 20250

Department of Environmental Services
415-12th Street N.W.
Washington, D.C. 2000

Water pollution control program.

Department of Human Resources
25 K Street, N.E.
Washington, D.C. 20009

Washington Ecology Center
2000 P Street N.W.
Washington, D.C. 20006

A clearinghouse for environmental education and action in the metropolitan area. Aims to provide information, distribution systems, and other services that will enable local volunteer citizens groups to reach beyond their limitations.

Agriculture Research Service
U.S. Department of Agriculture
George W. Irving, Jr., Administrator
Washington, D.C. 20250
(202) 737-4142, Ext. 3656

The Agricultural Research Service conducts basic and applied research in all fields pertinent to agriculture and through its regulatory and control programs protects the country from an invasion by new

agricultural pests and works to control or eliminate those now in existence. One of the objectives of the research programs is to increase efficiency of products while decreasing environmental pollution.

American Fisheries Society
Dr. Robert F. Hutton
Executive Secretary
1319 - 18th St. N.W.
Washington, D.C. 20005
(202) 872-8282

The Society promotes the educational, scientific, and technological development and advancement of all branches of fishery science and practice, including aquatic biology, engineering, economics, fish culture, limnology, oceanography, and technology. Members gather and disseminate information on fishes, fisheries, and fishery science and practices.

American Forestry Association
William E. Towell
Executive Vice President
1319 - 18th St., N.W.
Washington, D.C. 20006
(202) 467-5810

The Association is a national organization which is independent and non-political in nature devoted to the advancement of intelligent management and use of forests and related resources of soil, water, wildlife, and outdoor recreation areas. Its purpose is to create an enlightened public appreciation of these resources and their role in the economic and social life of the U.S.

Phyllis Rock
American Forest Institute
Education Division
1619 Massachusetts Avenue, N.W.
Washington, D.C. 20006
(202) 667-7807

American Institute of Architects
William L. Slayton
Executive Vice President
1785 Massachusetts Avenue, N.W.
Washington, D.C. 20006
(202) 785-7300

This is a professional society of architects who are dedicated to maintaining and improving today's practitioners, to creating an adequate supply of well trained practitioners for the future, and to representing the Institute before professional and industrial groups, government, and the public so that good design is encouraged by law and demanded by the community.

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, INCORPORATED
Richard W. Dickinson
Associate Executive Director
1750 Old Meadow Road
Washington, D.C. 20006
(702) 893-5171

The Society is a national organization of landscape architects which is particularly concerned with the advancement of education and skills in the art of landscape architecture. Members view architecture as an instrument for improving environmental conditions as well as a service to human health, comfort, and welfare.

Arctic Institute of North America
Robert C. Faylor, Director
Washington Office
1619 New Hampshire Avenue, N.W.
Washington D.C. 20009
NO-7-1716

The Arctic Institute, a non-profit and private organization, fosters research in all scientific disciplines, both natural and social, and promotes the logical development of northern North America. It pursues these objectives by supporting research, by a program of publications, and by maintenance of a comprehensive library.

Audubon Naturalist Society of the Central Atlantic States
William D. Blair, Jr., President
8940 Jones Mill Road
Washington, D.C. 20015
(301) 652-9188

The Society was organized in order to create larger public awareness of man's place in the natural world and of the importance of maintaining sound ecological relations in all biotic communities including those altered by man's activities.

Bureau of Commercial Fisheries
Fish and Wildlife Service
U.S. Department of the Interior
Dayton L. Alverson, Director
Interior Building, C Street
Washington, D.C. 20240
(202) 343-8701

The Bureau, established under the Fish and Wildlife Service, endeavors to increase the contribution of fishery resources to the national economy; to increase efficiency and improve the economy; to provide for the growing demand for fish and shellfish products; to seek means of producing more world aquatic resources; and to contribute to man's understanding and control of aquatic living resources and their environment.

Bureau of Outdoor Recreation
U.S. Department of the Interior
Edward C. Crafts, Director
Washington, D.C. 20240
(202) 343-1100

The Bureau administers and provides the money for acquisition of Federal lands for recreation as well as issues matching grants to aid states in planning and acquiring outdoor recreation areas and facilities. It assesses the needs in the area of water-oriented recreation and helps to formulate plans to establish such facilities. The Bureau also studies special problems in order to devise solutions to such threats as water pollution and conflicting land use.

Bureau of Land Management
U.S. Department of the Interior
Boyd L. Rasmussen, Director
Interior Building, C. Street
Washington, D.C. 20240
(202) 343-1100

The Bureau administers the public domain lands which are located primarily in the western states and which amount to about 60% of all Federally owned lands. Public domain lands and resources are managed under multiple use principles for various outputs, including outdoor recreation, fish and wildlife production, livestock grazing, industrial development, watershed protection and mineral production.

Bureau of Reclamation
U.S. Department of the Interior
Floyd E. Dominy, Commissioner
Washington, D.C. 20240
(202) 343-1100

The Bureau administers the Federal program in 19 western states for water resource development and use to provide multi-purpose projects furnishing fish and wildlife protection and recreational opportunities; water for farm irrigation, municipal, and industrial use; hydroelectric power; flood control; and other natural resource conservation benefits.

The Conservation Foundation

1717 Massachusetts Ave. N.W.
Washington, D.C. 20036
President: Sidney Howe
(202) 265-8882

A private foundation which is financed by gifts and grants. It is not a membership organization, but carries out its work with a staff of some 20 professionals in ecology, planning, law, education, conservation, resource management, and other dieciplines. The Foundation functions as a bridge between ideas and action, - seeking and synthesizing knowledge, making it widely available, and exploring new approaches to environmental quality. It offers educational programs, conservation and information services, policy studies, demonstration projects, conferences, reports, and newsletters.
Robert Dennis - director of "National Parks for the Future" part of Centennial celebration of National Parks.
James Aldrich - Educational Programs.

Citizens Committee on Natural Resources
Dr. Spencer M. Smith, Jr., Secretary
1346 Connecticut Avenue
Washington, D.C. 20036
(202) 785-1261

The Committee is a registered lobbying organization and limits itself to only legislative and administrative action matters. It offers its views at the Congressional Hearings and contacts other conservation organizations and individuals regarding assessments of the legislative picture, urging them to take specific action on these measures. In turn, the Committee urges its conservation point of view upon members of Congress regarding proposed legislation and/or the need for additional legislation.

Consumer Inquiries
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland
(202) 443-3170

U.S. Department of the Interior
Geological Survey
Washington, D.C. 20242

U.S. Department of Transportation
400 - 7th Street, N.W.
Washington, D.C. 20590
(202) 426-1111

The Department of Transportation is charged with the responsibility of developing and improving a coordinated national transportation system. In addition, the Department endeavors to stimulate technological advances in the industry, thus preserving the nation's free enterprise transportation network.

Bureau of Mines
U.S. Department of the Interior
John F. O'Leary, Director
Interior Building, C Street
Washington, D.C. 20240
(202) 343-3100

The Bureau conducts programs to promote conservation and development of mineral resources, discourage waste in mining and mineral processing, and urge safety and healthful working conditions in the mineral industries. It also performs research in all phases of extraction and treatment of metals, nonmetals, and mineral fuels. In cooperation with other Federal agencies, the Bureau conducts research and related investigations on air and water pollution problems relating to mineral-resource development.

Bureau of Sport Fisheries and Wildlife
Fish and Wildlife Service
U.S. Department of the Interior
John S. Gottschalk, Director
Interior Building, C. Street
Washington, D.C. 20240
(202) 343-4717

The Bureau, established under the Fish and Wildlife Service, aids in conservation of migratory birds, certain mammals, and sport and commercial fisheries. This includes application of research findings in development and management of a system of national wildlife refuges for migratory birds and endangered species; operation of a system of fish hatcheries; management of population of migratory game birds; and acquisition and application of technical knowledge for the perpetuation and enhancement of fish and wildlife resources.

Federal Water Pollution Control Administration
Clean Water Publications
U.S. Department of the Interior
Washington, D.C. 20242

Geological Survey
U.S. Department of the Interior
William T. Pecora, Director
GSA Building
Washington, D.C. 20242
(202) 343-1100

This research bureau publishes and distributes maps and reports on the nation's physical features and mineral and water resources. Responsibilities include activities in topographic mapping, geology, water resources, and conservation.

D.C.-T.B. and Respiratory Disease Association
1714 Massachusetts Ave. N.W.
Washington D.C. 20036
(202) 785-2444

Forest Service
U.S.Department of Agriculture
Edward P. Cliff, Chief
Washington, D.C. 20250
(202) 737-3957

The Forest Service administers national forests and grasslands and is responsible for the management of their resources. It cooperates with Federal and state officials in the development and maintenance of wildlife resources, and cooperates with state and private owners in the application of sound forest management practices. It also conducts research in the entire field of forestry and wild land management.

Forest Service
U.S. Department of Agriculture
Information and Education
Room 3223 South Agriculture Building
Washington, D.C. 20250

Environmental Education Council, National Capital Area
Ethel T. Hackney, D.C. Representative
D.C. Public Schools
415-12th Street N.W.
Washington D.C. 20004
(202 629-6512

A cooperative made up of school districts in the national capital area - D.C., Maryland, and Virginia. Raymond O'Neil is President.

Marine Technology Society, Incorporated
Robert Niblock
Executive Secretary
1730 M. Street, N.W. #412
Washington, D.C. 20036
(202) 296-6773

The Society is dedicated to the dissemination of knowledge of the marine sciences as well as to the perfection of equipment and devices to explore, study, and intelligently harvest the ocean's resources. It also functions as a forum for creating a broader understanding of the relevance of marine sciences to other technologies, arts, and human affairs.

Metropolital Washington Coalition for Clean Air
John S. Winder, Jr.
Executive Director
1714 Massachusetts Avenue, N.W.
Washington, D.C. 20036
(202) 785-2444

The Coalition's primary purpose is to develop as the central voice and clearinghouse in the Washington metropolitan area for direct citizen action, participation, and education in the field of air pollution control.

Job Corps
Office of Economic Opportunity
Executive Office of the President
David O. Williams - Director
1111 - 18th Street, N.W.
Washington, D.C. 20560
382-6134

Work activities at the Corps' Civilian Conservation Centers is directed toward conserving, developing, managing and protecting public recreational areas.

National Air Pollution Control Administration (NAPCA)
Dr. John T. Middleton, Commissioner
200 C Street
Washington, D.C. 20204
(202) 755-2673

This Administration is a constituent part of Consumer Protection and Environmental Health Service and consists of the following three divisions: Bureau of Criteria and Standards, Bureau of Engineering and Physical Sciences, and Buriau of Abatement and Control.

National Association of Biology Teachers
1420 N Street, N.W.
Washington, D.C. 20005
(202) 667-8268

The Association is comprised of biology instructors who are dedicated to encouraging scientific thinking and utilization of methods of science. The Society facilitates dissemination of biological knowledge and information concerning the selection, organization, and presentation of materials in teaching biology. It stresses the interrelationships of biology and other sciences as well as fosters, encourages, and conducts research in the field of biological education.

Nature Conservancy
Charles H. W. Foster, President
1800 North Kent Street
Arlington, Virginia
(202) 524-3151

The Nature Conservancy is a member-governed organization created for non-profit educational and scientific purposes. Projects are conducted to preserve outstanding natural areas of the U.S. The main thrust is focused upon developing public awareness of natural area problems, fostering regional and community planning for preserving parks and open spaces, and advising and supporting local groups in actual projects. The Conservancy's goal is to direct the growth of our civilization so that we may live more nearly in harmony with our environment.

National Planning Association
Eugene H. Bland
Director of Information
1606 New Hampshire Aveune, N.W.
Washington, D.C. 20009
(202) 265-7685

NPA is an independent, private, and non-profit non-political organization. Its objectives are the study of methods for the full utilization of the productive resources of the U.S. in order to offer its citizens the highest possible material and cultural standards.

National Recreation and Park Association
Mr. Dwight Rettie, Executive Director
1601 North Kent Street
Arlington, Virginia
(202) 525-0606

As a public service and educational organization, the National Recreation and Park Association fosters progressive development and wise administration of resources, facilities, programs, and personnel in order to provide adequate recreational opportunities to all citizens for creative, constructive, and healthful use of leisure time.

National Science Teachers Association
Robert Silber, Executive Secretary
1201 16ty Street, N.W.
Washington, D.C. 20036
(202) 833-4283

The Association is comprised of science teachers throughout the country who have united in order to promote the improvement of science teaching at all levels. They are particularly concerned with interdisciplinary cooperation in education and problem-solving. They have a Committee on Conservation and Environmental Studies.

League of Women Voters Education Committee
1730 M Street N.W.
Washington D.C.
(202) 296-1770

They have conducted land and water seminars and recycling seminars.

Society of American Foresters
1010 Sixteenth Street, N.W.
Washington, D.C. 20036
(202) 296-7820

National Wildlife Federation
Thomas L. Kimball, Executive Director
1412 16th Street, N.W.
Washington, D.C. 20036
(202) 483-1550

The Federation is a non-profit association of state organizations and their affiliated local conservation clubs. It is a citizens' organization which has been responsible for many action programs in the conservation field. Its prime objective is to encourage through all educational means the intelligent management of the life-sustaining resources of the earth - its water, soil, forest, plantlife, and wildlife - and to promote and encourage the pursuit of knowledge and greater appreciation of these resources. They are also assisting in school site development in the city of Washington D.C.

Soil Conservation Service
U.S. Department of Agriculture
Kenneth E. Grant, Administrator
Washington, D.C. 20250
(202) 655-4000

The Soil Conservation Service provides technical assistance in all land-use and rural areas development programs of the Department of Agriculture on farms and watersheds, including erosion control, flood prevention, woodland conservation, water management, and recreation. Attention is devoted to maximum development of wildlife habitat compatible with the primary use of land.

Smithsonian Institution
S. Dillon Ripley, Secretary
1000 Jefferson Drive, S.W.
Washington, D.C. 20560
(202) 628-4422

The Smithsonian Institution was established in 1846 for the "increase and diffusion of knowledge among men." Activities include development and preservation for study of exhibits in natural history and anthropology; scientific research and publications; programs of national and international cooperative research, conservation, education, and training; and answering the inquiries from the public and educational and scientific organizations.

National Association of Conservation Districts
Gordon K. Zimmerman
Executive Secretary
1025 Vermont Avenue, N.W.
Washington, D.C. 20005
(202) 347-5995

The Association was created in order to advance the conservation and orderly development of the land and water resources of the U.S. as well as to encourage education in the use and stewardship of all renewable natural resources. It also assists local conservation districts organized under state law to provide services to land-owners and others that will enable them to plan and utilize their natural resources in a wise manner.

Summer Program for Action to Renew the Environment (SPARE)

Sponsored by the Environmental Protection Agency - an interagency, cooperative youth employment program to provide meaningful work and education experiences and to improve the environment. EPA conducts the program in collaboration with the Neighborhood Youth Corps summer work program. Plans for a continuing year-round program also are being developed.

Soil Conservation Service
U.S. Department of Agriculture
Educational Relations Department
South Building, Room 6207
Washington, D.C. 20250

Sport Fishing Institute
Education Division
608 13th Street, N.W.
Washington, D.C. 20005
737-0668

U.S.Atomic Energy Commission
Division of Technical Information
Germantown, Maryland
973-1000
Attn: **Hazel Whitaker**

Urban Land Institute
Robert E. Boley, Executive Secretary
1200 18th Street, N.W.
Washington, D.C. 20036
(202) 338-6800

The Institute studies, analyzes, and reports on trends which influence the development and use of land. It conducts panel study sessions, workshops and research conferences in fields of residential, commercial, and industrial development. It undertakes basic research under grants and contracts and publishes its results in publications and bulletins.

Urban System and Environment
U.S. Department of Transportation
400 7th Street S.W.
Washington, D.C. 20590
(202) 426-4315

This office is responsible for developing innovative solutions to urban transportation problems considering environmental factors. Emphasis is placed upon "balanced transportation projects" through coordination of the various resources of the Department of Transportation, other government agencies, and private industries.

National Association of Railroad Passengers
417 New Jersey Avenue, S.E.
Washington, D.C. 20003
546-1550

National Association of Home Builders
Institute of Environmental Design
Abba I.Polangin, AIA
Staff Director
1625 L Street, N.W.
Washington, D.C. 20036
(202) 737-7435

The fundamental purpose of the NAHB Institute of Environmental Design is to advance the professional capacity of the members of NAHB in achieving a position of leadership in the creation of better environments for all America.

Population Reference Bureau
Michael Brewer, President
1755 Massachusetts Ave. N.W.
Washington D.C. 20036
(202) 232-2238

Population Crisis Committee
James W. Ridleberger
National Chairman
1835 K Street, N.W.
Washington, D.C. 20006
(202) 659-1833

The Committee is a private, non-profit educational organization supported solely by individual contributions. It acts as a catalyst in stimulating greater public interest in world population growth and to gain support for the family planning needed to contain it.

It conducts and participates in conferences, meetings, and seminars in efforts to encourage humane and effective solutions to this world-wide problem. In addition, it distributes informational publications upon request.

Director
Water Resources Council
2120 L Street, N.W.
Washington, D.C. 20037

National Park Service
U.S. Department of the Interior
The Honorable Ronald H. Walker, Director
Interior Building, C Street
Washington, D.C. 20240
(202) 343-4621

The Service administers parks, monuments, and other administrative classifications of national significance for their recreational, historic, and natural values.

Wildlife Management Institute
C. R. Gutermuth, Vice President
709 Wire Building
Washington, D.C. 20005
(202) 347-1774

The Institute is a non-profit, private, national organization which is supported by civic-minded individuals, industries, and organizations. Membership is open to all persons, firms, or groups that desire to support its program. Its sole objective is to contribute to the nation's welfare by promoting the restoration, improved management, and wise use of wildlife, soils, waters, forests, and all other natural resources.

Rachel Carson Trust for the Living Environment, Incorporated
Shirley A. Briggs, Executive Director (Audubon Natural Society)
8940 Jones Mill Road
Washington, D.C. 20015
(301) 652-1877

The Trust was established in order to develop a public awareness of the contamination of the environment and to evaluate current research for both scientists and laymen. It serves as a clearinghouse of information on ecology, research needs, and gives guidance in courses of action to individuals and groups. The program will operate on an international level when fully developed.

Resources for the Future
Joseph L. Fisher, President
1755 Massachusetts Avenue, N.W.
Washington, D.C. 20036
(202) 462-4400

Resources for the Future is a private, non-profit corporation dedicated to advancing the development, conservation, and efficient use of natural resources through programs of research and education. It is supported by grants from the Ford Foundation. RFF's field of interest embraces the basic resources of land, air, water, and minerals, in addition to the goods and services derived from them. Emphasis is placed upon regional and urban problems owing to their direct influence upon land use and their impact upon the demand for many kinds of resource products and on problems of environmental quality.

William Painter
Washington Ecology Center
2000 P Street, N.W., Room 612
Washington, D.C. 20036
(202) 833-1778

National Education Association
Project Man's Environment
1201 16th Street, N.W.
Washington, D.C. 20036
(202) 833-4000

This project was initiated in order to stimulate and foster environmental consciousness and action efforts among educators, the nation's youth, and the general public.

Wildlife Society
Fred G. Evenden, Executive Director
3900 Wisconsin Avenue, N.W.
Suite S-176
Washington, D.C. 20016
(202) 363-2435

The Wildlife Society was established to create and maintain the highest possible professional standards of conservation and to develop all phases of wildlife management along sound biological lines. The Society disseminates publications and other information that strive to accomplish these ends.

Water Pollution Control Federation
Robert A. Canham, Executive Secretary
3900 Wisconsin Avenue, N.W.
Washington, D.C. 20016
(202) 362-4100

The Federation was established as a non-profit, technical membership organization whose objectives are to advance the fundamental and practical knowledge of all aspects of water pollution control by the dissemination of technical knowledge through publications, technical conferences, improvement of professional status of those in the field, and promotion of public understanding and participation in encouraging the adoption of sound water pollution control regulations.

Washington Technical Institute
Cooperative Extension Service
4100 Connecticut Ave., N.W.
Washington, D.C.
(202) 629-4006

Fisherman's Clean Water Action Project (a Nader group)
David Zwick, Director
1832 M Street #101
Washington, D.C.
(202) 833-3935

The Fisherman's Clean Water Action Group is organizing professional teams across the country to work for clean water. It is involved in litigation, consumer education, and helping local citizen groups to pressure for clean water projects. The group is funded by private citizens.

RESOURCE MATERIALS AVAILABLE:

Central Atlantic Environment Service
William E. Shands, Executive Director
1717 Massachusetts Ave., N.W.
Washington, D.C.
265-1587

Publishes the Central Atlantic Environment News, formerly the Potomac Newsletter. Ruth Mathes, Editor.

The Futurist
Edward Cornish, President
4916 St. Elmo Avenue
Bethesda, Maryland
(202) 656-8274

This is a bi-monthly publication of the World Future Society which functions as the society's journal of forecasts of trends and ideas about the future. It is concerned with man's relationship with a rapidly changing world. It features articles of scientific, social, and technical bent.

Resources for the Future
Henry Garrett, Editor
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036
(202) 462-4400

They publish a great variety of books, booklets, and pamphlets in areas of research concerned with the quality of the environment. Unless otherwise stated, interpretations and conclusions in these publications are those of the authors; the organization takes responsibility for selection of significant subjects of study, the competence of the researchers and their freedom of inquiry.

"Environmental Crisis: What You Can Do"

A pamphlet that is a checklist and resource guide designed to "stimulate commitment and action to reduce pollution and prevent further damage to the environment." It includes steps which an individual or group member may take to become involved in the solution of environmental problems in the community. The resource list has names and addresses of 23 groups with information and materials available. Available from: Publications Division of NEA; package of 30 for $1.50. Stock # 382-11742.

National Wildlife Federation
1412 16th Street, N.W.
Washington, D.C. 20036
483-1550

Environmental Discovery Units (teacher guides to ecology) - 12 units covering various subject areas.
Also - free list of educational publications.

POSSIBLE RESOURCE PERSONS:

Richard Marks
Extension Forester and Wildlife Specialist
Extension Service, United States Department of Agriculture
Washington, D.C.
(202) 447-4556

George Carley
Interstate Commission on the Potomac River Basin
1025 Vermont Avenue, N.W., #402
Washington, D.C. 20005
393-1978

Mrs. H. W. Cannan
Potomac Valley Conservation and Recreation Council
4201 Massachusetts Avenue, N.W.
Washington, D.C. 20016
(202) WO6-5143

Linda Lee
1750 Pennsylvania Ave., N.W.
Washington, D.C. 20006
(202) 527-1225

Member of the National Advisory Council on E.E. General Counsel to the Inter-American Social Development Institute. A lawyer dealing in environmental law, Miss Lee is extremely knowledgeable in bureau and federal agency activities. She has served as staff counsel to the Citizen's Advisory Committee on Environmental Quality.

James Aldrich, Educational Programs
Conservation Foundation
1717 Massachusetts Ave., N.W.
Washington, D.C.
(202) 265-8882

William L. Reavley
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1412 16th Street, N.W.
Washington, D.C. 20036

Bob Bannister
Youth Advisory Board
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Washington, D.C.
(202) 755-0407

George Alderson
Friends of the Earth
620 C Street, S.E.
Washington, D.C. 20005
(202) 755-0407

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Office of Information
Bureau of Land Management
U.S. Department of the Interior
1825 K Street, N.W., Room 316
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(202) 343-5717

Associated with Johnny Horizon Program.

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Rex Wells - Division Chief
426-0107

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Smithsonian Institution
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Wisconsin Ave, N.W.
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U.S. Office of Education
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(202) 757-7682

Jane Checkin
Office for Economic Opportunity
1200 19th Street, N.W.
Washington D.C. 20506
(202) 254-5060

Bill Colpitts
Wildlife Refuge
U.S. Department of the Interior
Room 2346
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Marion Connolly
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447-2022

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1800 N. Kent
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Writer of Environmental Studies Curriculum

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Former Assistant Secretary, Department of the Interior.

Mr. Daniel R. Flynn
Executive Secretary
Commerce Technical Advisory Board on Noise Abatement
U.S. Department or Commerce
Washington, D.C.
496-8161

Mrs. Golightly
International Affairs Office
Environmental Protection Agency
Washington, D.C.
755-0805

Mrs. James Free
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Director, Title III Urban Environmental Education Project; Evaluator, ERIC Title III Environmental Education materials; former member of NSTA Environmental Education Committee; represents Washington D.C. on the Metropolitan Washington Environmental Education Council; participant in numerous national conferences on environmental education; Co-chairman of Planning Committee on Environmental Education, Washington, D.C.

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Dr. Joseph L. Fisher, President
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Dr. Fisher heads this Ford Foundation group - as an economist.

Mr. Sidney Howe, President
The Conservation Foundation
1250 Connecticut Avenue, N.W.
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659-1996

Has a special interest in Title I, HEA. Recently succeeded Russell Train as President of the Foundation.

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Consultant, EPA; Office of E.E.

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Bernie Lukco
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He is an attorney, and has written material concerning museums for environmental education.

Don McGuire
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Pre-service teacher training.

Ed McIntyre
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Bernie Michael
Head of Federal Interagency Committee on Education (FICE)
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Mr. Joe G. Moore, Jr., Commissioner
Federal Water Pollution Control Administration - EPA
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Jean Mathews
Office of Environmental Interpretation
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Mrs. Katherine N. Mergen, Acting Head
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Her special work has been with women's clubs and youth groups.

Dr. Robert Novick
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Harry Kramz
Acting Chief
Neighborhood Youth Corps
Department of Labor
Washington, D.C. 961-2803

Linda Petty
Secretary's Task Force
U.S. Department of the Interior
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Member of Preparatory Committee of the 1971 International Youth Conference on the Human Environment.

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400 6th Street, N.W.
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Bureau of Sport Fisheries and Wildlife
Washington, D.C. 20240

Dixie Scott
League of Women Voters
Education Fund
1730 M Street, N.W.
Washington, D.C. 20036
296-2860

Mrs. Sylvia Shugrue
Science Department
District of Columbia Public Schools
Washington, D.C.

Douglas Scott
Education Officer
Wilderness Society
729 15th Street, N.W.
Washington, D.C. 20005
(202) 347-4132

Jon Seger
Smithsonian Institution
Office of Academic Programs
Museum of Natural History
10th and Constitution Avenue, N.W.
Washington, D.C. 20560

Elena M. Sliepcevich, Director
School Health Education Study
National Education Association
1201 16th Street N.W.
Room 800
Washington, D.C. 20005
833-4406

Elwood Seaman
Bureau of Reclamation
Assistant to the Commissioner for Ecology
U.S. Department of the Interior
Room 7621
Washington, D.C. 20242

Norris Sydnor
Civil Rights Division
Environmental Protection Agency
Washington, D.C.

Mr. Reinhold W. Thieme
Deputy Assistant Secretary of the Interior for Water Quality and Research
Washington, D.C.

Barry S. Tindall
Cons. Program Specialist
National Recreation and Park Association
1601 North Dent Street
Arlington, Virginia

Jane Westenburger
Forest Service
U.S. Department of Agriculture
Washington, D.C.
111-6605

Adele N. Wilson
Division of Public Information
National Park Service
U.S. Department of the Interior
Room 1013-A
Washington, D.C. 20240

Mr. Jack Williamson
Landscape Architect
Daniel, Mann, Johnson, and Mendenhall
1725 Eye Street, N.W.
Washington, D.C.

Charles Withington
U.S. Geological Survey
F Street between 18th & 19th St. N.W.
Washington, D.C.
343-2505

Member of advisory committee, Earth Science Education Program.

Albert Young
Special Assistant to Acting Assistant for Education
National Science Foundation
Washington, D.C. 20550
282-7920

Col. Robert Werner
Office of Chief of Engineers
Corps of Engineers
Department of the Army
Washington, D.C. 20310
693-7093

DeVance Walker
National Park Service
1100 L Street, N.W.
Washington, D.C.

Dr. Fred Tschirley
Pesticides Coordinator
Office of Science and Education
U.S. Department of Agriculture
Washington, D.C. 20250
447-3965

Dr. Dave Ward
Executive Assistant
Environmental Quality Executive Committee
U.S. Department of Agriculture
Independence Ave. at 12th and 14th Streets
Room 331 East
Washington, D.C.
388-3854

Merle VanHorn
Bureau of Outdoor Recreation
U.S. Department of the Interior
801 19th Street, N.W.
Room 1109-A
Washington, D.C.
(202) 343 5755

Fred Tuttle
Director of Educational Programs
National Aerospace Administration
Washington, D.C.
(202) 628-7400

John S. Winder, Jr.
Metropolitan Washington Coalition for Clean Air
1714 Massachusetts Avenue, N.W.
Washington, D.C. 20036
(202) 785-2444

Dan Saults
Chief of Conservation Education
Office of Conservation Education
Bureau of Sport Fisheries and Wildlife
Room 3240
Washington, D.C.
(202) 343-5634

Public relations - information and education. There are Regional Conservation Coordinators in each region.

Mr. Kenneth Strom
c/o Dr. Leopold May
Department of Chemistry
The Catholic University of America
Washington, D.C. 20017
(202) 635-5000

Some Ecological Effects of Sanitary Landfills - presented a paper on this study at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Ernest Moody
U.S. Soil Conservation Service
Southern Agriculture Building
Washington, D.C.
(202) 344-4180

District conservationist working with schools and other city agencies on erosion control on city property.

Mr. William Sanders, Director
Fred Douglas United Community Center
2027 Martin Luther King Avenue, S.E.
Washington, D.C. 20020

Charlotte C. Hutton
Environmental Education Program Developer - Science
Public Schools of the District of Columbia
Department of Science
Presidential Building
415 12th Street, N.W.
Washington, D.C. 20004

Gayle Kight
Environmental Education Program Developer - Elementary
Public Schools of the District of Columbia
Department of Science
Presidential Building
415 12th Street, N.W.
Washington, D.C. 20004

Carol Euston
Environmental Education Program Developer - Elementary
Public Schools of the District of Columbia
Department of Science
Presidential Building
415 12th Street, N.W.
Washington, D.C. 20004

Doris Mitchell
Environmental Education Program Developer - Science
Public Schools of the District of Columbia
Department of Science
Presidential Building
415 12th Street, N.W.
Washington, D.C. 20004

Richard D. Tucker
Environmental Education Program Developer - Social Studies
Science Department - Public Schools of the District of Columbia
Presidential Building
415 12th Street, N.W.
Washington, D.C. 20004

Richard Taylor
Horticulturist
Public Schools of the District of Columbia
Phelps Vocational High School
24th & Benning Road, N.W.
Washington, D.C. 20002

Richard Brillantine
Office of Beautification
District of Columbia Government
415 12th Street, N.W.
Washington, D.C.
(202) 629-2047

Barbara Lund
National Park Service
1100 Ohio Drive, S.W.
Washington, D.C.
(202) 386-5896

Josephine Butler
District of Columbia Tuberculosis & Respiratory Disease Association
1714 Massachusetts Ave., N.W.
Washington, D.C.
(202) 785-2444

Madelyn Berryman
Environmental Science Department
Washington Technical Institute
Washington, D.C.
(202) 629-7879

Joan Patton, Chairman
Environmental Education Committee
D.C. Congress of Parents & Teachers
2839 Hurst Terrace, N.W.
Washington, D.C.
362-0837

Robert L. Hackney, M.D., Chief
Chronic Pulmonary Disease Association
Howard University College of Medicine
Washington, D.C.
(202) 483-1500

William Robertson
Community Health Education
Howard University College of Medicine
Washington, D.C.
(202) 636-7835

Environmental Services
War On Rats
1114 9th Street, N.W.
Washington, D.C.
629-5447

Mr. Carl Hansen
Chairman
Ecology Committee
Joint Board of Science Education
814 Thayer Avenue
Silver Spring, Maryland 20910
(202) 588-1462

Mr. John Miller
United States Brewers Assn., Inc.
4507 Blagden Ave., N.W.
Washington, D.C.
(202) 882-7799

J. J. Dickerson
Department of Recreation
3149 16th Street, N.W.
Washington, D.C.

Ira Hutchinson
Office of Urban Affairs
National Park Service
1100 Ohio Drive, S.W.
Washington, D.C.

MARYLAND

STATE E.E. CONTACT:

James Latham
E.E. Program Manager
State Department of Education
P.O. Box 8717
Friendship International Airport
Baltimore, Maryland 21240
(301) 796-8300

STATE PLAN ACTIVITIES:

A comprehensive state program of E.E. was adopted by the Maryland State Board of Education, August 25, 1971.

SCHOOL PROGRAMS AND ACTIVITIES:

Worcester County Outdoor Education Program
Fred Fletcher
Worcester County Board of Education
Market Street
Snow Hill, Maryland 21863

Washington County Outdoor Education Program
Washington County Board of Education
Commonwealth Avenue
Hagerstown, Maryland 21740

Prince George's County Outdoor Education Program
James Ruckert
Prince George's County Board of Education
Upper Marlboro, Maryland 20870

Mongtomery County E.E. Program
Joan Valient
Montgomery County Board of Education
850 N. Washington Street
Rockville, Maryland 20850

Lansdowne Senior High School
Social Studies, Science, E.E. Course
Dr. Benjamin Poscover
Lansdowne Senior High School
3800 Hollins Ferry Road
Baltimore, Maryland 21227

Frederick County Outdoor Education Program
Dave Marple
Frederick County Board of Education
115 E. Church Street
Frederick, Maryland 21701

Garrett County Outdoor Education Program
Albert Ringer
Garrett County Board of Education
40 South 4th Street
Oakland, Maryland 21550

Board of Education of Allegany County
108 Washington Street
Cumberland, Maryland 21502
Superintendent, Wayne Hill
(301) 722-6695

The Allegany County Board of Education has been able to offer an environmental education course in outdoor education to all sixth graders who wished to participate. The Board has also offered a limited course to a few special education students.

Anne Arundel County Outdoor Education Program
Paul Rusko
Anne Arundel County Board of Education
Green Street
Annapolis, Maryland 21404

Baltimore County E.E. Program
John Heck, Director
Baltimore County Board of Education
Aigburth Mannor
Towson, Maryland 21204

Allegany County Outdoor Education Program
Ken Hodgdon
Allegany County Board of Education
108 Washington Street
Cumberland, Maryland 21502

Mr. Forest Lawton
Baltimore City Public Schools
2519 N. Charles Street
Baltimore, Maryland 21218

Mr. Lawton is project director of a program of inservice training of personnel serving grades K-12 with Title V, FY72 monies.

COLLEGE AND UNIVERSITY PROGRAMS AND ACTIVITIES:

Natural Resources Institute
Professor L. Eugene Cronin, Director of Research
University of Maryland
Chesapeake Biological Laboratory
Solomons, Maryland 20688
(301) 454-5641

There is a Children's Laboratory here at which the Aquapeake EEL project with the Appeal Elementary School of Lusby is carried out. Last school year the laboratory worked with six different 5th grade children per week. Pilot exercises are being tried in the summer of 1972 with visiting groups from across the State, and will be re-evaluated in the fall of 1972 with a new group of Appeal School children and published in the late fall for distribution to interested educators. The Institute was awarded FY 1972 monies under the E.E. Act for the development of supplementary curriculum materials for the elementary level. Project director: Tom Wisner

Robert L. McCan, President
Dag Hammarskjold College
Columbia, Maryland

Opened in 1971. Focus and orientation and structure will be much like Prescott and the University of Wisconsin. Green Bay with Survival University ethic.

Charles County Community College

Since 1970 has explored concept of developing an environmental control laboratory with its foundation a core curriculum in environmental techniques with options of specializing in such areas as air pollution, waste water treatment, recreation, planning, zoning, etc.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Transnational Family Research Institute
8555 16th Street
Silver Springs, Maryland 20910
Contact: Miss Clendenning

Environmental Relief Organization of Annapolis
Sam Atwood
Rt. 3, Box 98b
Annapolis, Maryland 21403

North American Habitat Preservation Society
R. Doyle Grabarck, President
P. O. Box 869
Adelphi, Maryland 20783
(301) 434-5754

The Society financially supports meaningful litigation in order to preserve natural resources and members conduct research on air and water pollutants, and attempt to develop methods of waste disposal economically useful. The Society works with government, business, and institutions to set up scientific advisory boards to offer independent advice to these agencies. It also acts as a public educator in developing environmental science units for schools and developing awareness programs for all citizens.

Maryland Conservation Council, Inc.
Lloyd M. Gerber, President
P. O. Box 975
Baltimore, Maryland
(301) 752-2700

The purpose of the Council is to act as a coordinating body for the conservation-oriented organizations in Maryland. It is concerned with the broad spectrum of conservation problems and the quality of the environment for the entire state and in taking action on such problems.

U. S. Department of Agriculture
Agricultural Research Service
Federal Center Building
Hyattsville, Maryland 20782

Bureau of Air Quality Control
State Department of Health
610 N. Howard Street
Baltimore, Maryland 21201

Department of Natural Resources
State Office Building
Annapolis, Maryland 21401

Recently reorganized to encompass the Department of Chesapeake Bay Affairs, Department of Forest and Parks, Department of Water Resources, Environmental Services, Fish and Wildlife Administration, the Geological Survey, and twenty-one other State commissions, boards, and committees that are assigned natural resource activities.

Maryland Environmental Trust
8 E. Mulberry Street
Baltimore, Maryland 21202

Formed to conserve, improve, stimulate, and perpetuate the aesthetic, natural, health and welfare, scenic, and cultural qualities of Maryland's environment. Created by the State Legislature, 1967.

Chesapeake Bay Foundation
17 State Circle
Annapolis, Maryland 21401
(301) 268-8816

Purpose: "to harness private resources in support of educational, representational, organizational, and custodial programs designed to combat pollution and conserve the natural resources of the Bay country." As one of its current educational programs it is conducting overnight cruises for high school and college students in order to bring them in contact with the Bay.

Neighborhood Design Center
Jay Steinhour
206 E. Biddle Street
Baltimore, Maryland 21202

American Shore and Beach Preservation Association
Box 1246
Rockville, Maryland 20850

They put out a magazine and newsletters.

Conservation Education Council of Maryland
Kent Fuller, Secretary
La Vale, Maryland 21502
(301) 729-0904

The Council was formulated in order to encourage activities and programs to help educate the public in matters of conservation of natural resources. It also helps to develop programs which are helpful to the

above as well as assists in coordinating the efforts of other Maryland organization.

Ecology Action Inc.
Mrs. Peter Abel
112 E. 25th Street
Baltimore, Maryland 21218
(301) 235-2212 or 366-2070

Hopes to support an education center in conjunction with the Baltimore Environmental Center. Mrs. Abel is Board Member, Better Air Coalition and Member of Ecology Centers Communications Council, Washington, D.C.

Department of Water Resources
State Office Building
Annapolis, Maryland 21401

Maryland Environmental Services

A public corporation which operated from the Department of Natural Resources. It acts as a statewide sanitary district, using a management approach, rather than regulatury, to environmental quality. It has authority and funds to construct and operate both solid and liquid waste treatment and disposal facilities, functions usually left to local governments.

Gerald Sneider
Executive Director, Audubon Society Center
8940 Jonesville Road
Chevy Chase, Maryland
(201) 652-9188

RESOURCE MATERIALS AVAILABLE:

POLLUTION - Abbreviated Unit for Elementary Grades

Developed under direction of Wendell Hosley. Available with transparencies from:

Outdoor Education School
Prince George's County Public Schools
Upper Marlboro, Maryland

1970, 34 pp.

Air/Water Pollution Report
P. O. Box 1067
Blair Station
Silver Spring, Maryland 20910
587-6300

A Weekly newsletter on problems of air, water, and soil. Covers all significant aspects of air, water, and soil pollution. Some major information areas: new market opportunities, new government controls, new products, research, health.

LaMotte Chemical Products Company
Educational Products Division
Chestertown, Maryland 21620

POSSIBLE RESOURCE PEOPLE:

Dr. Theodore Maull
Professor of Biology
Division of Ecology
Morgan State College

Dr. John Bareham
Professor of Geo-morphology
Towson State College

Dr. James Latham
State Department of Education
Chairman: State Task Force for E.E.

Dr. Jean Schueneman, Director
Bureau of Air Quality Control
Department of Health and Mental Hygiene
State of Maryland

Dr. Gordon Wolman, Chairman
Department of Environmental Engineering
John Hopkins University

Dr. Frederick Ritter
Professor of Social Studies (Urban Geography)
Morgan State College

George Wills, Chairman
Maryland Environmental Trust

Mrs. Peter Abel
Chairman for Education
Clean Air Coalition of Baltimore

Daniel Smith, Volunteer Director
Baltimore Environmental Center

M. Gordon Wolman
Department of Environmental Sciences
John Hopkins University
Baltimore, Maryland 21218

John Heck
Coordinator of E.E.
Baltimore County Public Schools
Aigburth Manor
Towson, Maryland 21204

Mr. Frank Mentzer
Park Superintendent
Catoctin Mt. National Park
(301) 824-2574

James W. Addy
Specialist in Social Studies
Maryland State Department of Education
600 Wyndhurst Avenue
Baltimore, Maryland 21210
(301) 383-3378

Darold Emerson
Chairman, College Education Committee
Committee on E.E.
Frostburg State College
Frostburg, Maryland 21532

Mr. Robert Cochrane
Assistant General Manager
WMAR Television Studios
Baltimore, Maryland
(301) 377-2222

Mr. Thomas Williams, Director
Office of Pubilc Affairs
Environmental Health Service
U.S. Department of Health Education and Welfare
5600 Fishers Lane
Rockville, Maryland 20852
Tel: code 153-34805

Dr. Helmut Landsberg, Research Professor
Institute of Fluid Dynamics and Applied Mathematics
University of Maryland
College Park, Maryland

Frank A. Bonsal, Jr.
Borad of Directors
Central Atlantic Environment Service
1717 Massachusetts Avenue, N.W.
Washington, D.C.

A resident of Glyden, Maryland and has been concerned with environmental developments in the Green Spring Valley and Baltimore areas. Member of the investment banking firm of Alex. Brown and Sons.

Mrs. Alexander Cochran
Planned Parenthood of Maryland

Contributed to Population Curriculum Study, University of Delaware.

J. N. Carsey
Charles County Community College
Maryland

Attended 1971 meeting of the National Association for E.E.

J. Millard Tawes
Secretary, Department of Natural Resources
State Office Building
Annapolis, Maryland 21401

Darwin Tobing
2423 Lyttonville Road, Apt. 12
Silver Springs, Maryland 20902
589-5824 or at Indonesian Embassy: 293-1745 ext. 239

Interested in developing an international E.E. curriculum.

Charles C. Johnson, Administrator
Environmental Health Service
U. S. Department of Health, Education and Welfare
5600 Fishers Lane
Rockville, Maryland 20852

Mr. James Oswald
Strategic Planning Corporation
330 North Charles Street
Baltimore, Maryland 21201

William C. Loring
Bureau of Community Environmental Management
Public Health Service
Parklawn Building, Room 15-75
Rockville, Maryland 20852

Dr. John Middleton, Commissioner
National Air Pollution Control Administration
Public Health Service
U.S. Department of Health, Education and Welfare
Parklawn Building, Room 17-59
Rockville, Maryland 20852

Malcolm Davies
Community College of Baltimore
Maryland

Familiar with Man and Environment, Miami-Dade Jr. College Curriculum.

Tom Wisner
Conservation Education Specialist
Conservation Education Division
Chesapeake Biological Laboratory
Box 38
Solomons, Maryland
(301) 326-4281

NEW JERSEY

STATE E.E. CONTACT:

Louis A. Iozzi, Consultant
Environmental Education
New Jersey State Department of Education
Division of Curriculum & Instruction
225 West State Street
Trenton, New Jersey 08625
(609) 292-3444

STATE PLAN ACTIVITIES:

New Jersey has a state plan for elementary and secondary schools and a staff for Environmental Education. The staff consists of 14 members, 10 professionals and 4 secretaries. They carry out their activities under the New Jersey State Council for Environmental Education.

New Jersey was the first state in the nation to develop a state master plan for environmental education. At present, the state is involved in implementing the recommendations contained in the master plan through the cooperative efforts of the New Jersey State Council for Environmental Education and the Consultant in Environmental Education, New Jersey State Department of Education.

Over the next year, New Jersey is concentrating its environmental education efforts in the following areas:

Curriculum. A computer based K-12 environmental education program is being developed. The program consists of 12 interdisciplinary Computer Based Resource Units (CBRU's) concerning such topics as Population, Natural Resources, Industrial Growth and Economic Development, Case studies, etc. Each resource unit contains objectives, content, activities, evaluation instruments, and resource suggestions. The first units will be available to the teachers of New Jersey in September, 1973.

Teacher In-Service Training. An in-service training program in the use of CBRU's is being developed. The program consists of a film and 2 filmstrips and will be available for local school use in the fall of 1973. In addition, initial steps in a statewide teacher in-service training program in environmental education are underway. In the fall of 1973, teachers will be able to receive background information in environmental education via television and assistance with environmental education methods and techniques in a series of "hands-on" seminars to be conducted throughout the state.

Environmental Education Advisory Boards. EEAB's are being formed throughout the state. The EEAB's consist of citizen interest groups which work with and advise local boards of education re: environmental education programs, resources, etc.

American Association for the Advancement of Science. The New Jersey State Council for Environmental Education is working with the AAAS in organizing a consortium of Regional Environmental Education Councils.

New Jersey School Boards Association. The school boards association is assisting in the state's efforts in the areas of curriculum materials, workshops, etc.

Guidelines for Environmental Education. A publication to assist local school districts in developing their own interdisciplinary environmental education programs is being developed. This publication should be available in the fall of 1973.

Newsletter. An environmental education newsletter will be distributed to all local schools in New Jersey on a regular basis starting in the fall of 1973. The newsletter will be a major communications link between the state and local school districts.

Man and Environment. The New Jersey State Department of Education, the New Jersey State Council for Environmental Education, and the New Jersey Education Association are co-sponsoring the television series entitled Man and Environment. Each of the 15 half-hour programs in the series is scheduled to be broadcasted 5 times a week on WNET and all four channels of the New Jersey Public Broadcasting Authority. Man and Environment is suitable for teacher in-service, academic purposes with high school students, college courses from cooperating institutions of higher education, and for adult and community education programs.

E.E. PROGRAMS FUNDED FOR 1972:

Norm Klein
Brookdale Center for Environmental Management
Brookdale Community College
Lincroft, New Jersey

Brookdale Community College will train inservice education personnel serving the elementary level.

Dr. Helen B. Warrin
Seton Hall College
400 S. Orange Avenue
South Orange, New Jersey 07079

This program will develop curriculum materials for pre-service training of college teachers.

James A. Kimple
South Brunswick Township Public Schools
West New Road
Monmouth Junction, New Jersey

South Brunswick schools will develop curriculum materials for the secondary level.

SCHOOL PROGRAMS AND ACTIVITIES:

See: Environmental Education in New Jersey - Statewide Survey Report
The New Jersey State Council for Environmental Education
at Montclair State College
Upper Montclair, New Jersey 07043

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Department of Earth & Planetary Sciences
Newark State College
Morris Avenue
Union, New Jersey 07083

Glassboro State College
Glassboro, New Jersey 08028

From 1957-1967, every pre-service education student at the College has had at least one week of environmental studies in a resident center related to the study of the outdoor classroom as contrasted to the studies of the indoor classroom and related to the course known as Practicum. This privilege is now extended on an optional basis for all students.

The College has an environmental education Master's Degree program with more than 90 students enrolled. This program has been highly successful in developing a corp of teachers who either in their present classrooms or in other positions of curricular leadership are helping to develop a K-12 grade environmental program in their respective school districts. An undergraduate concentration in environmental studies of 18 s.h. is open to students of all majors.

Environmental Action Committee
Union Building
Fairleigh Dickinson University
Teaneck, New Jersey 07666

New Jersey State School of Conservation
Stokes State Forest
Branchville, New Jersey
Director: Dr. John Kirk

Mr. Thomas J. Givnish
c/o Dr. David J. Kinsman
Department of Geology and Geophysical Sciences
Princeton University
Princeton, New Jersey 08504

A student originated study on the impact of proposed watershed changes on ecology of New Jersey Pine Barrene.

Brookdale Center for Environmental Management
Brookdale Community College
765 Newman Springs Road
Lincroft, New Jersey 07738

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

In addition, see: A Professional Resource Directory in Environmental Education
The New Jersey State Council for Environmental Education
at Montclair State College
Upper Montclair, New Jersey 07043

South Jersey Association of Water Superintendents
Moorestown Township
Moorestown, New Jersey 08057

SPACE
119 Plumtree Lane
Willingboro, New Jersey 08046

Surf Anglers Association
405 Seventh Street
Riverton, New Jersey 08077

Tubeertown Area Civic Association
Allen Road
New Gretna, New Jersey 08224

West Jersey Club
Natural Foods Association, Inc.
709 Glenwood Court
Cinnaminson, New Jersey 08077

Closter Nature Center Association
P. O. Box 222
Closter, New Jersey 0762[illegible]

Committee for a Clean Passaic River
13-08 Lyle Terrace
Fairlawn, New Jersey 07410

Englewood Cliffs Homeowners Organization (ECHO)
12 Clifton Terrace
Englewood Cliffs, New Jersey 07631

Brookdale Center for Environmental Management
765 Newman Springs Road
Lincroft, New Jersey 07738

Citizens Actively Protecting and Beautifying the Lyndhurst Environment (CAPABLE)
P. O. Box 183
Lyndhurst, New Jersey 07071

Concerned Leonians for Environmental Action Now (CLEAN)
110 Gladwin Avenue
Leonia, New Jersey 07605

Pinelands Advisory Council
44 N. Packard Street
Hammonton, New Jersey 08037

Pompeston Creek Watershed Association
Woodside Lane
Riverton, New Jersey 08077

Associated Architects for the Township of Medford (AIA)
518 Market Street
Camden, New Jersey 08102

Audubon Environmental Center
115 Walnut Street
Audubon, New Jersey 08106

Audubon Wildlife Society
P. O. Box 34
Audubon, New Jersey 08106

Camden County Defenders of the Environment (CCDOE)
Box 236
Collingswood, New Jersey 08108

Cherry Hill Environmental Action Committee
124 Kitty Hawk Road
Cherry Hill, New Jersey 08034

Community Air Pollution Committee of South New Jersey (CAPCOM)
326 Market Street
Camden, New Jersey 08102

Crows Woods Nature Center Association
Box 482
242 Kings Highway East
Haddonfield, New Jersey 08033

Ecological Committee of Oaklyn
514 Newton Avenue
Oaklyn, New Jersey 08107

Vine Irwin Society of the Children of the American Revolution
615 Lees Avenue
Collingswood, New Jersey 08108

West Jersey Society of Architects
518 Market Street
Camden, New Jersey 08102

Cape May County Chapter
Izaak Walton League
Box 33
Cape May Court House
Cape May, New Jersey 08210

Cape May Geographic Society
Box 134
Cape May Point, New Jersey 08212

Witmer Stone Club
Stone Harbor, New Jersey 08247

Campers and Hikers Association
New Jersey Chapter
38 West Street
Woodbury, New Jersey 08096

New Jersey Science Supervisors Association

Able to provide consultant services.

Walter Stocker, President
Citizens for Conservation
10 Rankin Avenue
Lasking Ridge 07920
(201) 766-2449

A volunteer group organized in Fall, 1969 in Bernards Township, Somerset County concerned with the total environment. It has been represented at hearings and meetings throughout the State of New Jersey and has also participated in Federal hearings, in particular the hearings before the Subcommittee on Education of the Committee of Labor and Public Welfare, U. S. Senate Environmental Quality Act, May 19 and 20, 1970. During the past two years, Citizens for Conservation carried on a pilot project of utilizing para-professional environmental educators who had qualified by taking a course given by the Somerset County Park Commission and been accredited by Columbia University. Programs were established in grades K-6 and 12. Because of the extensive effort expended, many requests for assistance in this type of program have come to the group.

Trenton Environmental Coalition
Trenton League of Women Voters
Elizabeth Salett, President
6 Kensington Avenue
Trenton, New Jersey
(609) 394-8420

This group grew out of the League of Women Voters' Task Force on Ecology. The Coalition's membership consists of about 50 individuals and representatives of groups and institutions, such as the Trenton City Government, UPI, The Rodent and Insect Control Program, the Trenton Boys' Club, Trenton, Mercer County Chamber of Commerce, Goodwill Industries, the Trenton Council of Civic Associations, etc.

Passaic River Coalition
25 Holmesbrook Road
Basking Ridge, New Jersey 07920
Chairman: Ella F. Filippone
(201) 766-3416

This organization has been serving as an umbrella group for the many environmental organizations which have been formed in northern New Jersey during the past few years. It distributes a newsletter to over 300 state, county, municipal, and community leaders throughout the Basin. The Coalition has been acting as a clearinghouse for information and has developed two programs, "Can the Passaic River Be Restored as a Model River?" and "And Then the Floods Came!"

Monmouth Eco-Center Inc.
629 Mattison Avenue
Asbury Park, New Jersey
President, Dr. Martin S. Levetin
(201) 775-4949 or 536-2063

Has a program of service activities including: maintaining an environmental hot line, processing complaints about maintaining and disseminating information on recycling activies in the county.

Essex County Park Commission
115 Clifton Ave.
Newark, New Jersey

The Commission has a division of Environmental Sciences and a Center for Environmental Studies.

Conservation and Environmental Studies Center

Developed with Title III funding by Dr. V. E. Vivian, a Glassboro State College Faculty member. Now being supported by fees from public and private schools, business and industry, the center is well known for its curriculum guides for teachers.

Earth Awareness Foundation
350 Grove Street
Somerville, New Jersey 08876
Chairman: Jerome Lederer
(201) 722-7300

Trails and Conservation Committee
171 Diamond Spring Road
Denville, New Jersey 07834

Somerset County Park Commission
P. O. Box 837
Somerville, New Jersey 08876
Walter A. Jones: Chief Naturalist-Director of E.E.

The Commission has an E.E. Center which employs a new concept of using land, physical facilities such as buildings and trails, educational equipment, and educators who are also well-trained naturalists, ecologists and conservationists, to teach people about themselves and their inter-relationship with their surroundings.

New Jersey Citizens for Clean Air
770 Inwood Road
Union, New Jersey 07085

Anti-Pollution League
77 Homewood Avenue
Allendale, New Jersey 07410
Larry Bogart, Executive Director
(201) 327-3914

The Anti-Pollution League is composed of concerned citizens who endeavor to educate themselves and the general public on the hazards of radio-active waste release. Members work to instruct citizens on prevention of such contamination as well as furnishing literature and free speakers upon request.

Environmental Self-Defense League
285 Madison Avenue
Madison, New Jersey 07940

Thunder Mountain Vocational Educational Environmental Center
Newton Board of Education
Star Route
Layton, New Jersey 07851
948-6767

National Park System, Division of Voactional Education, New Jersey State Department, and Newton Public Schools. The overall aim of the Center's Land Lab is environmental awareness, focused on all students in the state, with special emphasis on those from the inner-cities, Title I children, young children and parents of head start, mentally retarded and neurologically impaired children, and vocationally oriented students. The

latter are of prime interest to the lab since its location and environment lend themselves to the introduction and practice of environmentally oriented vocations.

Sparta Action Volunteers for Ecology
Mrs. Walter R. Schaefer, President
23 Wallkill Road
Sparta, New Jersey 07871

Students That Oppose Pollution (STOP)
c/o Mark Lamela, President
7 Rivulet Way
Trenton, New Jersey 08619

Stratford Environmental Action Committee
Bob Grundlock Jr. President
221 Union Avenue
Stratford, New Jersey

Systems for Change, Inc.
132 West State Street
Trenton, New Jersey 08608
(609) 392-0500
Barry A. Passett, President

Oceanography Unlimited Inc.
91 Delaware Avenue
Paterson, New Jersey 07503
(201) 523-2300

Residents Effort Against Pollution (REAP)
240 S. Walter Avenue
Trenton, New Jersey 08629

Ocean Nature and Conservation Society
Winn X. Epstein, President
219 Eithth Street, #9B
Lakewood, New Jersey 08701
(201) 363-0121

The Society is concerned with the preservation of all facets of nature and encourages sound conservation practices throughout the state of New Jersey. Members endeavor to make the public aware of environmental threats and hazard and urge effective control methods to be adopted in local and state levels.

North Jersey Conservation Foundation
300 Mendham Road
Morriston, New Jersey
Executive Director: David F. Moore

A non-profit tax exempt membership foundation.

Mid-Atlantic Council of Watershed Associations
Paul M. Van Wegan, President
P. O. Box 171
Pennington, New Jersey 08534
(609) 466-3100

The Council was created in order to share knowledge and experiences for the mutual benefit of all watershed organizations; to analyze problems that affect watersheds in the area; and to foster the watershed approach to resources development. It is also eager to assist in the formulation of new watershed organizations.

Better Air for Bergen
Mrs. Anne Marie Murphy
Box 63
Teaneck, New Jersey 07666

New Jersey Citizens for Clean Air
Mrs. Barbara Eisler
Suite 405
144 S. Harrison Street
East Orange, New Jersey 07018
(201) 355-9450

Monmouth Eco-Center
629 Mattison Avenue
Asbury Park, New Jersey 07712

Member of Ecology Centers Communication Council.

Maplewood Committee for Consumer Action
63 Maplewood Avenue
Maplewood, New Jersey 07040

KEEP, Inc.
11 Morris Court
Summitt, New Jersey 07900
Contact: Mrs. D. B. Coward

Conservation and Environmental Studies Center
Box 2230, RD 2
Browns Mills, New Jersey 08015
Director: Dr. Eugene Vivian

Citizens for Environmental Action (CEA)
c/o Donald A. Rudy, President
49 Dogwood Lane
Berkeley Heights, New Jersey 07922

South Branch Watershed Association Inc.
34 Center Street
Clinton, New Jersey 08809
735-7040

Since 1959, the Association has been hard at work promoting environmental protection throughout the South Branch Raritan Valley from Budd Lake in Morris County to confluence with the Raritan River in Somerset County. A voluntary, non-profit, non-political corporation, the Association is the focal point through which people and businesses of the area can unite in their efforts to make the South Branch valley a more pleasant and profitable place in which to work and live.

Hackensack Meadowlands Development Commission
1099 Wall Street West
Lyndhurst, New Jersey 07071

Federation of Conservationists, United Societies, Incorporated
Robert P. Litch, Executive Director
P. O. Box 25
Barnegat Light, New Jersey 08006
(609) 494-2072

The Federation was established in order to preserve the integrity and resources of the state from exploitation as well as to enhance and maintain the natural beauties of New Jersey and protect its wildlife. It combats disturbances by industry and housing developments and attempts to educate the public in areas of conservation. The Federation promotes research in ecology, geology, botany, wildlife management, health, conservation, urban blight, etc.

New Jersey Department of Environmental Protection
P. O. Box 1390
Trenton, New Jersey 08625

Oceanography Unlimited Inc.
Sales and Marketing
108 Main Street
Lodi, New Jersey 07644

Bureau of Conservation and Environmental Science
Dr. Robert White-Stevens, Chairman
College of Agriculture and Environmental Science
Rutgers University
New Brunswick, New Jersey 08903
(201) 247-1766, Ext. 1447

The Bureau conducts research, graduate training, and extension into problems of enivronmental pollution and develops methods of control and elimination. It organizes, guides, and encourages multi-disciplinary programs on an interdepartmental basis, primarily within the College of Agriculture and Environmental Sciences, although appropriate talents and facilities in other colleges within the Rutgers University system are also included.

RESOURCE MATERIALS AVAILABLE:

Resource Guide to E.E.
The New Jersey Department of Education
Division of Curriculum and Instruction
225 West State Street
Trenton, New Jersey 08625

A Professional Resource Directory in Environmental Education
The New Jersey State Council for Environmental Education
at Montclair State College
Upper Montclair, New Jersey 07043

Education for Survival, A Social Studies Science Curriculum, Grades 1, 2, 3
Education for Survival, A Social Studies Science Curriculum, Grade 4
North Jersey Conservation Foundation
Morriston, New Jersey

Land-Use: Concern - Challenge - Committment
Water Quality Monitoring Manual
Water - The Waste of Plenty
Source Book in Environmental Education

Conservation and Environmental Science Center
Dr. Eugene Vivian
Box 2230, R. D. #2
Browns Mills, New Jersey 08015

Guidelines for Environmental Education in New Jersey (In preparation. Should be ready for distribution early Fall, 1973.)

POSSIBLE RESOURCE PEOPLE:

See also A Professional Resource Directory in Environmental Education
The New Jersey State Council for Environmental Education
at Montclair State College
Upper Montclair, New Jersey 07043

Roger Hawkins
E.E. Specialist
Wayne Public Schools
Wayne, New Jersey

Mrs. Andrew Epstein, Chariman
Twin Rivers Ecology Committee
178 Bennington Drive
E. Windsor, 08520

Mr. Roland Yunghans
Environmental Scientist
New Jersey State Department of Health

J. Harry Smith
Essex County College
New Jersey

Robert C. Smith
Mauric River Township School
Port Elizabeth, New Jersey 08348

Helped review bibliography for Conservation and Environmental Studies Center.

Dr. R. H. Merritt
Director of Instruction
College of Agriculture and Environmental Science
Rutgers University

Dr. Calvin Stillman
Department of Environmental Resources
College of Agriculture and Environmental Science
Rutgers University

Donald D'Amato, Director
Thunder Mountain Vocational Environmental Center
Layton, New Jersey

Dr. Gertrude Tempe
Curriculum Coordinator
Madison Public Schools
Madison, New Jersey

Member of NEA Task Force on E.E.

Richard J. Sullivan
Commissioner
Department of Environmental Protection
Labor and Industry
Trenton, New Jersey 08625

Frieda Stern
New Jersey Avenue School
Atlantic City, New Jersey 08401

Derickson Bennett
Conservation Director
Am Littoral Society
Ft. Hancock, New Jersey

Betty R. Driver
Logan Township School
Bridgeport, New Jersey 08014

Helped review Bibliography for Conservation and Environmental Studies Center.

Craig D. Morgan
Woodcrest School
Cherry Hill, New Jersey 08034

Helped review bibliography for Conservation and Environmental Studies Center.

Mary H. Newsome
Indian Avenue School
Bridgeton, New Jersey 08302

Dr. John Kirk
President, American Camping Association
Professor, New Jersey School of Conservation
Branchville, New Jersey 07826

Irving Lewis Horowitz
Rutgers University

Sylvia Mazer
Mickle School
Camden, New Jersey 08104

Helped review bibliography for Conservation and Environmental Studies Center.

Ernest Henderson
E.E. Consultant
Conservation and Environmental Science Center
Browns Mills, New Jersey

Phyllis Mariotti
Buena Regional School
Buena, New Jersey 08310

Helped review bibliography for Conservation and Environmental Studies Center.

Rita Langley
Science Coordinator
East Orange, New Jersey

Paul McLaughlin
Brookdale Community College
Lincroft, New Jersey

Harry Ahlen
Brookdale Community College
Lincroft, New Jersey

Barbara Feld
Nursery School
Jewish Community Center
Pennsauken, New Jersey 08109

Helped review bibliography for Conservation and Environmental Studies Center.

Catherine Grover
M. E. Costello School
Gloucester City, New Jersey 08030

Helped review bibliography for Conservation and Environmental Studies Center.

Mr. Richard C. Cole
Associate Professor of Science (Instructor of Oceanography)
Brookdale Community College
Lincroft, New Jersey

Has served as Chief Interpretive Specialist for Sandy Hook State Park, Highlands, New Jersey since 1962. Has directed the Sandy Hook Interpretive Program, and taught science in the New Jersey schools. He is the consulting editor for Environmental Education, and a member of the New Jersey State Council for E.E. and the New Jersey State Educational Advisory Council. In 1968 he was named "New Jersey Conservation Educator of the Year". He authored the book, Sandy Hook Urban Wilderness.

Delores Byer
Max Leuchter School
Vineland, New Jersey 08360

Helped review bibliography for Conservation and Environmental Studies Center

Roberta Bruid
Richmond Avenue School
Atlantic City, New Jersey 08401

Helped review bibliography for Conservation and Environmental Studies Center.

Tim Blasko
Environmental Studies Coordinator
Mendham Township School
Brookside, New Jersey

William W. Woodside, Jr.
Regency Village, Apt. 37G
N. Plainfield, New Jersey 07060
(201) 754-1030

William Bickford
Evans School
Marlton, New Jersey 08053

Helped review bibliography for Conservation and Environmental Studies Center.

NEW YORK

STATE E.E. CONTACT:

Barry Jamason
Chairman, Environmental Task Force
New York State Education Department
Washington Avenue
Albany, New York 12224
(518) 474-7989

STATE PLAN ACTIVITIES:

The New York State Education Department formerly had responded to the need for environmental education program development through its E.E. Task Force. The Task Force has ceased to function in its former ad hoc, unfunded capacity and the Department's response to Environmental Education needs in the State are now limited to some publication development and school district consultations emanating from the Bureau of Continuing Education Curriculum Development. SED's Bureau of Mass Communications continues to develop media projects in this area, with recent contributions being the "Man Against His Environment" ETV series and the new United Nations Bureau of Mass Communications production, "Man Builds - Man Destroys" presently being copied by ETV outlets nationwide.

No specific Departmental support beyond the tacit recognition of the above efforts is anticipated for Fiscal Years 1973-1974 or 1974-1975.

A Task Force proposal for an OEE grant was not funded for the second straight year. The Task Force has developed an ad hoc liaison network with individuals, groups, and school systems. Two environmental activities guides for teachers Environmental Education Instructional Activities K-6 and 7-12 have been developed and distributed. A classroom manual of environmental techniques to be used in the various disciplines, Handbook of Environmental Education Strategies was developed and distributed in school year 1972-73. Also available are a film "How Did We Get Here?" and a filmstrip and accompanying manual, "A Better Way to Live." Three other related publications for teachers were developed and are being distributed by the Task Force, (Isn't It Time We Learned, Ecological Resources in New York State's Colleges and Universities, An Environmental Experience.)

In 1970, the New York State Law authorized the establishment of municipal environmental conservation commissions. These commissions have the potential for becoming focal points for community environmental concern and since they are official agencies, they are close to the local power structure.

E.E. PROGRAMS FUNDED FOR 1972:

Nichalas Caruso, Director
Larchmont Chamber of Commerce
99 Boston Post Road
Larchmont, New York 10538

Development of a process curriculum for the secondary level centering around solid waste disposal.

Sister Patricia Hartigan, Director
Brooklyn Diocesan School System
St. Nicholas High School
Brooklyn, New York 11211

Development of a process curriculum for urban secondary schools.

Grace Pleasants, Director
Girl Scouts of the USA
830 Third Avenue
New York, New York 10022

Development of written supplemental curriculum materials for communities.

William Bet, Director
Wave Hill, Inc.
675 W. 252 Street
Bronx, New York

Training inservice non-educational personnel serving the elementary level.

Helene Duffy, Director
Hudson River Sloop Restoration, Inc.
P. O. Box 25
Cold Spring, New York

Development of pilot workshops for school and community based upon the ecology of a river.

Catherine Pessino, Director
American Museum of Natural History
Central Park and 79th Street
New York, New York 10024

Development of media materials for use by a museum and aimed at elementary students.

Educational Broadcasting Corporation
314 West 58th Street
New York, New York 10019

The design and testing of a process curriculum K-12.

Donald Mathis, Director
Pratt Institute
215 Ryerson Street
Brooklyn, New York 11205

The development of an urban environmental education center.

Mrs. Richard Smith, Director
Southern Tier Girl Scout Council
171 N. Place
Corning, New York 14830

Pilot community seminars for all ages focusing on water quality.

Richard E. Bamberger, Director
Schodack Central School District
Maple Hill High School
Castleton-on-the Hudson, New York 12033

Development of a process curriculum for suburban secondary schools.

Paul D. Marr, Director
Research Foundation
State University of New York
Box 7126
Albany, New York 12224

Development of curriculum materials for training government officials and members of environmental commissions.

Dr. William DeLucia, Director
East Syracuse/Minoa Central School District
Administration Building
407 Fremont Road
East Syracuse, New York 13057

Development of curriculum materials for the intermediate level.

SCHOOL PROGRAMS AND ACTIVITIES:

Ashokan Environmental Education Center
Ashokan, New York

Three hundred and seventy-five acres in the Catskill Mountains about a 45 minute drive from the main campus of the State University College, New Paltz. It offers a year round environmental education, camping and recreation center. From early spring to late fall each year public school students and teachers from the Mid-Hudson Valley, Westchester County, New York City, and Long Island use the Environmental Center weekly. Teacher workshops are conducted simultaneously and on weekends.

Freeport Public Schools
Union Free School District #9
P. O. Box 50
Freeport, New York 11520

In May of 1969, Freeport initiated a pilot Outdoor Education Resident Program. During the 1970 and 1971 school years the program grew to include all 6th grade students (about 540) and their teachers. During the 1970 and 1971 school years student and teacher enthusiasm and cooperation resulted in suggestions for changes and improvements in this program.

Johnston City Schools
Johnston City, New York
Terrence McCormack, Science Coordinator

Center for Cooperative Action in Urban Education
172 Genessee Street
Rochester, New York 14611

Rochester Board of Education developed Project Unique, an organization of nine programs coordinated by the Center for Cooperative Action in Urban Education. Each of the nine programs is aimed at one of the key problems facing urban education. They are: World of Inquiry School, Spanish, Community Teacher Program, Teacher Internship, Urban Education Major, Urban Suburban Transfer Plan, RISE (Right of the Individual to Secure an Education), The Sibley's Downtown Satellite School.

Outdoor Center and Land Laboratory
Gloversville Enlarged School District
311 North Main Street
Gloversville, New York 12078

The Center was developed with funds under Title I, ESEA, and a summer program (1972) is being conducted for disadvantaged children.

Wave Hill Inc.
675 West 252nd Street
Bronx, New York 10471

In cooperation with Wave Hill, Community School District #10 (Bronx) has developed an environmental education program which is integrated into an open education approach to learning for grades K-6. The program is successfully operating in the district's schools and has become a prototype which is being replicated by other Community School Districts of the Bronx and Manhattan area.

Wave Hill received a grant for FY 1972 from the Office of E.E., Washington for training inservice non-educational personnel serving the elementary level.

Herkimer County, New York

In this county there is a new environmental education program sponsored by the State Bureau of Cooperative Education Services (BOCES). BOCES is a policy-making board of citizens with the acting school district superintendent as the executive officer. The purpose of BOCES is to allow for a centralized administration of specialized services. The ecology environmental education program is one of the more recent additions to BOCES. The purpose of the program is to educate citizens about the enivronmental crisis. The immediate program objective is to produce pilot models for curricula and teacher training in the field of ecology.

In the spring of 1970 BOCES gave Don Tuttle, the science consultant for BOCES, permission to formulate training programs, informational services, and curriculum development in the field of environmental education. He began with the identification of local environmental problems. Curricular materials were developed and experimented with and guided by a committee of 35 people; they also formed the "Environdex" Committee to consolidate information on local resources problems, and actions related to improving the environment. They issued a catalogue through the BOCES education communication center for K-12, which lists all environmental education materials available through the BOCES center. The catalogue is available to all teachers in the ten cooperating schools.

The BOCES resource center also compiled a series of teaching kits for all grades. The BOCES program does not embrace any particular curriculum nor does it rely on any publication from the State Office of Education. The kits include paperback books, news articles, government pamphlets, newspapers, filmstrips, and cassettes; there are also articles submitted by children, sample lesson plans, checklists, questions to ask, activities to pursue, and local news releases. The children are encouraged to submit their own questions and materials.

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

State University College
Oneonita, New York 13820
Dr. G. John New
Dr. Gary J. Holway
(607) 431-3712

Columbia University
Dr. Walter Hoover
600 W. 169th Street
New York, New York

Syracuse University
Environmental Studies Institute
Dr. William Ritz
(315) 476-5541

The Institute on Man and Science
Rensselvaerville, New York

This is a private and independent seminar, research, and education center where "critical social problems of an evolving technological world are studied in depth."

Campus Office: Rensselaerville, New York 12147
(518) 797-3783

New York City Office: 325 E. 41st Street
New York City, New York 10017
(212) 687-3550

International office: Centre International
Geneve, Suisse

Lake Erie Environmental Studies
Dr. Wendell A. Mordy, Director
State University College
Fredonia, New York 14063
(716) 673-1820, or 673-3527

LEES provides a research environment for faculty and students of the Fredonia campus. It unites on an interdisciplinary basis all departments concerned with the complex environmental problems of Lake Erie. A lakeside facility is available with a modest fleet of small vessels. Research has been initiated in water chemistry and hydrology, fish mortalities, eutrophication problems, thermal loading, distribution of aquatic insects, and sedimentation by tributary streams to Lake Erie.

Lake Ontario Environmental Laboratory
John H. Judd, Research Scientist
State University College
Oswego, New York 13126
(315) 341-3088

LOTEL is an interdisciplinary research laboratory which conducts research by the staff and faculty of the biology, chemistry, geology, limnology, and meteorology departments. Emphasis is focused upon Lake Ontario and its drainage basin. Plans are being formulated to expand into the economic, political, and sociological facets of environmental study.

Institute of Urban Environment
Dr. Chester Rapkin, Director
Columbia University
School of Architecture
New York, New York 10027
(212) 280-3515

The Institute is a research arm of the School of Architecture and its purpose is to conduct research in urban problems, both within the USA and other countries, and apply analytic tools and techniques of planning, architecture, and the social sciences to the critical urban issues of today. It is especially interested in the developing nations as well as in urbanization in semi-arid areas.

Institute of Environmental Medicine
Dr. Norton Nelson, Director
New York University Medical Center
New York, New York 10016
(212) 679-3200

The overall objectives of the Institute are to define through research the nature and extent of the impact of environmental factors on human health with the aim of prevention of adverse effects. This may be accomplished through cooperative studies with other groups within the University and outside organizations. The Institute also endeavors to train at graduate and post graduate levels, in cooperation with other components of the University, for teaching, research, and practice in this field.

Department of Biological Sciences
Drs. Carl George and Paul Urban
Union College
Schenectady, New York

Sponsors a course in Marine Sciences at the Bermuda Biological Station for Research at St. George's West, Bermuda. Has been going in 1970 and 1971. It gives predominantly city-bound students an opportunity to get to a sub-tropical marine environment and to be exposed to a combination of library studies, laboratory work, and excursions into the field.

The Environmental Studies Institute
James R. Manwaring, Executive Director
Syracuse University
1117 E. Genessee Street
Syracuse, New York
(315) 476-5541 Ext 2409, 2078

Types of programs: Instructional, Instructional Resources Center, Research and Evaluation.

Institute for Environmental Studies
John Loret, Director
Herbert H. Lehman College
Bedford Park Boulevard West
Bronx, New York 10468
(212) 933-6000

The Institute for Environmental Studies is currently developing a graduate program for M.A. and M.S. degrees in environmental sciences. The program is an interdisciplinary one and encompasses courses offered both locally and in other countries.

Institute for Study of Science in Human Affairs
Christopher Wright, Director
Columbia University
New York, New York 10025
(212) 280-4631

The Institute is primarily concerned with the development of environmental studies and the opportunities and the problems related thereto; however, it does not itself undertake systematic studies in the environmental sciences.

Urban Environmental Studies
William A. Wallace, Director
Rensselaer Polytechnic Institute
Troy, New York 12181
(518) 270-6565

In a multidisciplinary setting, the Urban Environmental Studies provides the technical resources, both human and material, necessary in the quest for the most desirable human environment. The program was created in order to offer educational programs focused upon urban areas which include the engineering and environmental sciences, and to assist the community by conducting basic and applied research on their problems utilizing the human and material resources of the University.

Marine Sciences Research Center
Donald F. Squires, Director
State University of New York
Stony Brook, Long Island, New York 11710
(516) 246-6543

The Center serves as the focus for the development of marine sciences throughout the 69 campus system of the State University of New York. It develops laboratory and ship facilities for research and educational use by the system and it provides leadership for a statewide program of coordinated research. Its program includes both applied and basic research in marine sciences, including physical, chemical, biological, and engineering aspects as well as legal, political, social, recreational, and economic areas.

State University of New York at Albany
State Education Department
Division of Educational Communications
Albany, New York 12224

Has developed curricula - for example: Man Against His Environment.

Environmental Forum
Mr. Louis Ismay, Chairman
State University of New York at Albany
1400 Washington Avenue
Albany, New York
(518) 457-3300

Center for Urban Environmental Studies
Professor Paul R. DeCicco, Technical Director
Polytechnic Institute of Brooklyn
Brooklyn, New York 11201
(212) 643-8579

The Center functions as a focal point for development of interdisciplinary research and curricula related to urban environment. Several departments have pooled their teaching and research resources in initiating such programs as transportation, air and water pollution control, solid and liquid waste treatment, water resources, drainage and flood control, building control, life sciences, biomedical engineering, urban planning, public administration, and urban social problems.

Center for Global Community Education
Richmond College
City University of New York

A social studies education center established primarily to promote problem solving of social issues. The Center is affiliated with the Institute of International Education. Faculty members participating in the activities of the Center have been selected from all disciplines within the college community.

Environmental Studies Institute
William C. Ritz, Director (Professor of Science Education)
Syracuse University
Syracuse, New York 13210
(315) 476-5541 Ext 4495 or 4496

Supported by the School of Education. Its primary mission has been to develop educational programs for citizens in general, and more specifically, for teachers. Current activities include the development of the Syracuse Environmental Awareness Tests (SEAT), a project under the direction of Dr. Eric Gardner.

Environmental Resources Center
Dr. Phyllis Thompson, Director
Sturges 208C
State University College of Arts and Science
Geneseo, New York 14454
(716) 243-2443

The Research Foundation of New York State University
Ralph Rumer and Harry Cullivan
P. O. Box 7126
Albany, New York 12224

GROUPS AND AGENICES WITH INTEREST IN E.E.:

Center for Environmental and Bionomic Studies
Dr. Howard M. Weiss, Director
7 Sills Court
Centerport, New York 11721
(516) 747-2343

National Tuberculosis and Respiratory Disease Association
Materials Division
1740 Broadway
New York, New York 10019

Center for Environmental Studies
Professor Paul R. DeCicco
Technical Director
Polytechnic Institute of Brooklyn
Brooklyn, New York 11201
(212) 643-2124

The Center was established to expand and coordinate the extensive programs of research and instruction of the Institute relating to the interaction of man and his environment. It acts as a focal point for development and expansion of interdisciplinary research and curricula related to the urban environment. The several departments have pooled their research and teaching resources to assure a truly collaborative effort.

Sole Supervisory District to Putman and Westchester Counties
Board of Cooperative Education Services
42 Triangle Ct.
Yorktown Heights, New York 10598

Received $250,000.00 in FY 1971 Title III Funds Allocated to E.E.
"The Area Education Agency's Role in Developing Environmental Education"
Director, Noble J. Gividen

An Educational program aimed at environmental stewardship will be designed and implemented in two counties. Unique environmental programs will be developed in each school district, with a focus on establishment of a multidistrict student environmental monitoring network concerning air, water, soil, waste, noise, and population to function first withing the project area and later to spread throughout and beyond the state. The project will also establish a clearinghouse to deal with environmental

materials for elementary and secondary education and will plan for the active involvement of State Education Department and State Environmental Conservation Department staff, as well as the 45 other Boards of Cooperative Education Service in the State.

Department of Environmental Conservation
50 Wolf Road
Albany, New York 12201

Board of Education, New York City
Burreau of Curriculum Development
131 Livingston Street
Brooklyn, New York 11201

Standard Oil Company
Incorporated in New Jersey
Public Affairs Department
Environmental Conservation
1251 Avenue of the Americas
New York, New York 10020

American Petroleum Institute
School Program
1271 Avenue of the Americas
New York, New York 10020

Citizens for a Quieter City
150 Amsterdam Avenue
New York, New York 10023

The Garden Club of America
Conservation Committee
598 Madison Avenue
New York, New York 10022

Pollution Underground
6 Owen Street
Rochester, New York 14615

Pollution Underground
St. James Parish House
Clinton, New York 13323

Environmental Technology Seminar, Inc.
P. O. Box 391
Bethpage, New York 11714
President: Robert Skirkanich
(516) 575-3131

Long Island Environmental Council Inc
Executive Director, Claire Stern
One Main Street
Roslyn, New York 11576
(516) 466-9493 or 621-2740

Monroe County Conservation Council
Delta Laboratory
18 Main Street
Webster, New York

This is a countywide league of a number of conservation-oriented organizations that support and operate a pollution laboratory. This laboratory undertakes research projects and also tests for many factors involved in air, water, and soil pollution. Much of the work at the laboratory is done by volunteers. It is able to provide schools with speakers and slides of pollution problems in the area and throughout the state, and it is able to lead field trips, and offer training programs in laboratory techniques for teachers.

Atlantic Ecology Center
36 W. Sunrise Highway
Freeport, New York 11520

St Lawrence County Environmental Management Council
Director: Office of the County Planning Board
126 Clarkson Hall
47 Main Street
Pottsdam, New York 13676
(315) 265-3750

Nineteenth Ward Community Association Inc.
P. O. Box 8513
Thurston Road Station
Rochester, New York 14619
Ecology Committee Co-Chariman: Mrs. Michael Chandler
(716) 328-3446

An association that has accomplished getting measures taken to better a community's environment.

Cooper-Hewit Museum of Design
Director, Mrs. Lisa Taylor
9 East 90 Street
New York, New York 10028
(212) 860-2011

In early 1973, the Museum will reopen to the public as the Smithsonian's National Museum of Design. It will be the only museum in the country devoted exclusively to the disign of the man-made environment and to its effect on the natural environment.

The Bronx Environmental Society, Inc.
Executive Director: Roger Davis
391 East 149th Street, Room 307
Bronx, New York 10455
(212) 665-9475

Roger Davis is a high school student who has written an essay, "Black Ecology" for the Society's bimonthly magazine, Millenium. The aim of the program is two-fold: it hopes to increase the number of Blacks and Puerto Ricans in the ecology movement and to show the minority groups how environmental issues affect them.

The Staten Island Institute of Arts and Sciences
Director: George Pratt
75 Stuyvesant Place
Staten Island, New York 10301
(212) 727-1135

Since 1966, the environmental resource program of the Staten Island Institute of Arts and Sciences has collected data on every significant change in environment of both Staten Island and the New York metropolitan area.

Environmental Action Coalition, Inc.
Executive Director: Karen Dumont
235 East 49th Street
New York, New York 10017

EAC operated a city-wide effort recycling program in its second year of expansion. EAC "advises and assists community and school groups wishing to establish recycling collection sites, and then provides continuing educational, materials handling, marketing, and accounting services to the participating groups. The program's purpose in not simply to help correct the solid waste problem, but to create a framework for E.E. Each community site becomes a teaching/learning center, giving the individual citizen a means of involving himself in the solution of an environmental problem while learning about solid waste and other urban environmental problems."

Dutchess County Environmental Association
Dutchess Community College
Richard Barnett, President
Pendell Road
Poughkeepsie, New York 12601

A coalition of groups with environmental concerns.

Rochester Committee for Scientific Information
166 Westbrook Road
Pittsford, New York 14534
President: Robert Lee
(716) 385-2297

Onondaga Nature Centers, Inc.
Director, Mike Krebill
3 Canton Street
Baldwinsville, New York 13027

Organized by a group of local citizens interested in preserving natural areas in order to utilize them as educational and recreational resources for Onondaga County. This organization currently maintains Beaver Lake Nature Center, operating with a full time staff of three teacher/naturalists. ONC is currently engaged in a teacher education project in cooperation with the Board of Cooperative Educational Services of Madison/Onondaga Counties.

Syracuse Area Citizens for Environmental Quality
Syracuse, New York

A citizen's action group in the Syracuse area. Its activities have included an environmental hot line, development of citizen awareness of pollution problems, and the most complete inventory of environmental groups in the Syracuse area.

Pratt Center for Community Improvement and Environmental Development
240 Hall Street
Brooklyn, New York 11205
622-5026

They put out a "Community Information Bulletin."

Rochester Committee for Scientific Information
5236 River Campus Station
Rochester, New York 14620

One of SIPI's affiliated science information committees.

Total Education in the Total Environment
Mr. William Eblen
Hudson River Museum
511 Warburton Avenue
Yonkers, New York 10701
(914) 963-4550

Committee for Better Transit, Inc.
Dr. Stephen B. Dobrow, President
31-40 56th Street
Woodside, New York 11377
(212) 728-0091, 278-0650

The Committee endeavors to advance the study of transportation problems and to work for improvement of and greater economy in public transit. It seeks to promote the exchange of ideas among its members by publishing technical studies, bulletins, and papers.

Susquehanna Environmental Education Association
Executive Director, Nancy Ayers
616 Pheasant Lane
Endwell, New York 13760
(607) 748-2398

Citizens Committee to Keep New York Clean
51 Madison Avenue
New York, New York 10016

The National Foundation - March of Dimes
Public Education and School Relations
800 Second Avenue
New York, New York 10017

Planning Associates, Education and Recreation Consultants
Executive Office, 291 Hempstead Avenue
West Hempstead, New York 11552

Has long been involved in studying issues and problems relating to establishment of Environmental Study Areas. The firm's Leisure Systems Services Division has developed a nationally acclaimed service devoted to researching and planning of Environmental Study Areas. As a collaboration of theorists, strategists, and scientists of varied disciplines concerned with environment, has been extensively involved in programs dealing with environmental awareness.

Planned Parenthood Federation
George N. Lindsay, Chairman
515 Madison Avenue
New York, New York 10022
(212) 752-2100

Planned Parenthood is the only organization through which individual citizens can help meet the world population crisis. The organization seeks to alert the public to population problems in the U.S. and throughout the world. It aids parents in making informed decisions about the size of their families. Its main goal is to make birth control universally known and accessible. It provides clinical research, education, professional training, and demonstration centers, as well as birth control services to the public.

Open Space Action Institute
Dr. Charles E. Little
Executive Vice President
145 East 52nd Street
New York, New York 10022
(212) 421-0732
Richard E. Galantowicz, Director of Operations

The Institute is a non-profit corporation funded by grants, consultant fees, contributions, and subscriptions. It publishes a journal, books, and reports as well as conducts information services to members regarding open space preservation. It is primarily concerned with disseminating information to the public in order to achieve effective land usage and preservation and to stimulate meaningful legislation to this effect. It asserts that open space preservation is the most tangible and effective method to mitigate the excessess of unrestrained urban growth.

Environmental Defense Fund
Roderick A. Cameron, Executive Director
P. O. Drawer 740
Stony Brook, New York 11790
(516) 751-5191

EDF is a coalition of lawyers and scientists which is dedicated to the protection of environmental quality by advocacy before courts and regulatory agencies. Its goal is to transform scientific knowledge into sound public policy through the adversary process. Members are pledged to take environmental offenders to court for prosecution and obtain results in that process.

New York State Action for Clean Air Committee
Kenneth Knwald, Executive Secretary
105 East 22nd Street
New York, New York 10010
(212) 677-1850

The purpose of the Committee is the promotion of voluntary air pollution control through education and moral persuasion, development of citizen interest in local control programs, transmission of accurate information

on air conservation, and encouragement of local and national legislation which directly relate to air pollution control.

New York Chamber of Commerce
Peter Grey: Staff Officer, Environmental Affairs
65 Liberty Street
New York, New York 10005

Suffolk Environmental Biology
Dr. Victor J. Gerhard
Stony Brook, New York 11790

Staten Island Science Information Committee
Institute of Arts and Sciences
75 Stuyvesant Place
Staten Island, New York 10301

One of SIPI's affiliated science information committees.

Friends of the Earth
Helen Englehardt
Assistant to Executive Director
30 East 42nd Street
New York, New York 10017
(212) 687-8747

Friends of the Earth is a membership organization with racial and national diversity, which is free to take on substantial legislative activity and to intervene on behalf of candidates who will serve the environment well. FOE believes that there is one ecosphere to restore and preserve; It must restore the major portion that has not been treated well by man and preserve the remainder, the last vestige of wilderness where life force is essentially uninterrupted by man, where there are answers to questions that man has not yet learned to ask. The organization welcomes members and offers favorable prices for publications to its members.

"EPICS"
Environmental Problems for Individually Centered Studies
Mr. Gilbert Z. Zinn
36 Mallery Road
Spring Valley, New York 10977

The Innovation Group
Mr. Robert Colborn, Director
Technology Communications Inc.
265 Madison Avenue
New York, New York 10016
(212) 679-8005

The Innovation Group features an information and educational program for executives in industry and government who are concerned with the proper management of technology and its effects upon the environment. It also publishes a monthly journal, Innovation, which relates its projects and activities.

Delta Laboratories, Inc.
Wayne Harris, President
18 W. Main Street
Webster, New York 14580

Came about through efforts of the Harris and Monroe County Conservation Council, a citizens group. It is a facility for the Conservation Council to test almost anything in the environment from polluted air to radioactivity.

Housewives to End Pollution (HEP)
Mrs. Ronald Ryan, Chairman
Buffalo, New York

Solid Waste Management Committee of the Erie and Niagara Counties
Regional Planning Board

Sponsored a catalog - Paper Made From Paper. The booklet has writing papers, book papers, and printing bristles. It includes twenty-five

samples from ten paper mills. The booklets are 50¢ apiece and are available from: Katie DiPirro
17 Blackman Drive
Grand Island, New York 14072

Center for Environmental Quality Management
Walter R. Lynn, Director
Cornell University
Ithaca, New York 14850
(607) 256-4898

The Center provides an interidsciplinary research and graduate training focus for faculty and students who are interested in environmental issues. Primarily, the Center is concerned with analysis and measurement of the various components of these problems.

SVA/SITE

An interdisciplinary Research Project in Visual Pollution and Environment Art. The School of Visual Arts in New York has collaborated with SITE (Sculpture in the Environment) to establish a special research project in visual pollution and remedial solutions through environmental art. It works with colleges and universities on a national basis to coordinate a Depot System for the investigation of visual pollution, to process and disseminate information, and offer guidance for creative alternatives using site-oriented environmental art. A central depot with full facilities has been established at the School of Visual Arts which will assemble data supplied by students of art, architecture, urban planning, engineering, ecology, sociology, and psychology. Auxilary depots are being established at colleges and universities across the country.

Initiation of the project has been made possible through a grant from the New York State Council on the Arts.

For further information: James Wines, Project Director, SVA/SITE, The School of Visual Arts, 209 E. 23rd Street, New York New York 10010, (212) 679-7350.

Scientist's Committee for Public Information Inc.
30 E. 68th Street
New York, New York 10021
(212) 737-7302

One of the oldest science information organizations in the county, having been organized 13 years ago. It is affiliated with the Scientist's Institute for Public Information. Its purpose is "to provide objective, technical information to any interested individual, organization or agency." Also is one of SIPI's affliiated science information committees.

Museum of Natural History
New York, New York

It has various ecology programs.

National Tuberculosis and Respiratory Disease Association
Materials Development
1740 Broadway
New York, New York 10019

Water Resources and Marine Sciences Center
Leonard B. Dworsky, Director
Cornell University
Ithaca, New York 14850
(607) 256-5020

The Center is an interdisciplinary organization serving the University at the graduate study and research level. Its purpose is to promote and coordinate a comprehensive program in water resources planning, development, and management in such areas as the sciences. engineering, law, economics, government, regional planning, and public health. It conducts and coordinates research and training activities in water resources, encourages new disciplines, and disseminates the results of such study. It also develops and operates the central facilities which serve the participants.

Rogers Conservation
Dr. John Weeks
Box 577
Sherburne, New York 13460

Department of Air Pollution Control
15 Park Row
New York, New York 10038

National Youth Conference on Natural Beauty and Conservation
830 Third Avenue
New York, New York 10022

Includes: Boy Scouts of America, Boys' Clubs of America, Camp Fire Girls, Inc. 4-H Youth Development, Future Farmers of America, Future Homemakers of America, Girl Scouts of the USA, Girls' Clubs of America, Red Cross Youth, YMCA, and YWCA.

High Rock Park Conservation Center
200 Nevada Avenue
Staten Island, New York 10306
(212) 987-6297

A wild spot in the midst of the city made possible by a few people in 1965 who saved 72 acres of woodland, pond, and brook from being turned into a housing development. The enthusiasm of many persons resulted in the purchase by the city of this natural area, with the aid of state funds. As the only natural area in New York where children learn about their environment, High Rock serves public and private school children from all areas of New York as well as adjacent areas.

New York Academy of Sciences
Admiral E. Schaute, Executive Director
2 East 63rd Street
New York, New York 10021
(212) 838-0230

The Academy's function is, primarily, to hold meetings and publish the results and findings of various scientific conferences. It serves as a forum for scientists in physical, biological, and social sciences.

The Area Education Agency's Role in Developing Environmental Stewardship
Dr. Francis Thompson
Sole Supervisory District of Putnam and Westchester Counties
42 Triangle Center
Yorktown Heights, New York 10598

Suffolk County Organization for the Promotion of Education (SCOPE)

SCOPE was established in 1964 by the Suffolk County School Executives Association to cooperatively develop needed educational programs too complex or costly for individual school districts to assume. SCOPE is chardered by the Regents of the State of New York and is a tax exempt, non-profit, non-commercial educational organization.

Information and data concerning the various operational and developmental activities of SCOPE are available upon request.

Executive Committee
Mr. Kenneth W. Ross, President
Dr. Gordon A. Wheaton, Vice President
Dr. James Bernard, Treasurer
Mr. James Hines
Mr. Robert N. LaFountain
Dr. William C. Heugh
Dr. James H. Boyd
Mr. Lawrence W. Gallagher
Dr. Charles Raebeck
Mr. William DeLuca, Jr.
Dr. William H. Heath, Executive Secretary

Wave Hill Center for Environmental Studies
675 West 252nd Street
Bronx, New York 10471
(212) 549-2055

Wave Hill is one of the 15 cultural institutions funded by the City of New York through the Department of Parks, Recreation, and Cultural Affairs. It is devoted solely to environmental studies and offers programs of urban environmental education for inner-city students, field trips, in-service credit courses for teachers, conferences on environmental issues, and various other projects. It publishes a monthly calendar, an annual report, and various publications of individual programs and projects.

ECHO (Environmental Clearing House Organization)
Bufralo Museum of Science
Humboldt Park
Buffalo, New York 14211
896-5200 Ext.23

Current staff: twenty; edits and publishes ECHO ISSUES once a month; has accumulated and filed information on 250 or more specific subjects, 120 public and private agencies, 120 organizations, the County Environmental Management Council and the Town and Village Commissions. These activities are routine; acquiring resource materials, establishing group liaisons, involvement with education efforts - providing teachers, students, and parents with curriculum suggestions, materials, etc., establishment of a speaker's bureau; maintaining awareness of legislative activities in the environmental field at village, town, city, county, state, and federal levels.

Wave Hill Center for Environmental Studies
675 West 252nd Street
Bronx, New York 10471
(212) 549-2055

This is a unique garden center in the Bronx, recently designated a National Environmental Education Landmark; it is one of the eleven sites so honored throughout the nation and has been formed to realize a student centered learning program for urban youth.

An environmental study area site of 28 acres established in 1965. With programs directed toward K-12 on a year round basis; also there are programs directed toward teacher training and university students (for Fordham University's education department.) There are other adult programs as well as programs for special groups, service clubs with emphasis on environmental education and nature education.

Citizens Committee for the Hudson Valley
William H. Ewen, Chairman
P. O. Box 146
Ardsley-on-Hudson
New York, New York 10503
(914) 631-6824

The Committee was formulated in order to promote the legislation for orderly future development of the Hudson Valley as a partnership of Federal, state, and local governments. More generally, it seeks to promote government intervention in preventing destructive development threats to major scenic or recreational areas. Members are highly opposed to uncontrolled industrial development, real estate speculation, and highway building.

Educational and Cultural Center
Nicholas Collis
700 E. Water Street
Syracuse, New York 13210
(315) 475-2157

New York Institute of Technology
Dr. Betram Spector
Wheatley Road
Old Westbury, Long Island, New York 11568
(516) 626-3400

Richter-McBride Productions, Inc.
Robert Richter
250 W. 57th Street
New York, New York 10019
(212) 247-0700

Center for Urban Education
F. E. Brown
105 Madison
New York, New York 10016

An independent non-profit corporation founded in 1965. It is in part a social research agency, in part an educational institution in the university tradition, in part an engineering laboratory whose tests invented solutions to problems in urban educational form and policy in cooperation with participating educators. Its major goal is to clarify and improve the education necessary to the urban complexes of a pluralistic and democratic society". Has developed a "Planning for Change" curriculum that seeks to help 4th and 5th graders in poverty areas to understand more fully the ways in which they can contribute directly to improving their futures, their neighborhoods, and their entire social environment.

The Laboratory for Research in Relevant Education
145 E. 69th Street
New York, New York 10021
(212) 249-0971

Has done work in the area of environmental education.

Educational Facilities Laboratories Inc
477 Madison Avenue
New York, New York 10022

EFL is a "non-profit corporation established by the Ford Foundation to help schools and colleges with their physical problems by encouragement of research and experimentation and dissemination of knowledge regarding educational facilities." One of their reports is: "Places for E.E."

Conservation Forum of New York State
Charles L. Joudry, President
Buffalo Museum of Science
Humboldt Park
Buffalo, New York 14211
(716) 896-5200

The Forum was established in order to arouse statewide interest in our natural resources and, through representation of our member organizations, to seek support for constructive legislation or opposition to trends which jeopardize a living environment.

Adirondack Mountain Club, Incorporated
Frank J. Oliver, President
Keene Valley, New York 12943

The Club was created in order to create and encourage public interest in the principles of conservation and natural resources, including use of wild forest lands. It accomplishes this by aiding members as well as the public in enjoying the wilderness while conserving and protecting it. The Club promotes foot travel and opposes use of motorized vehicles in wilderness areas.

Citizens for Clean Air, Incorporated
Linda Fosburg, Executive Director
502 Park Avenue, Room 416
New York, New York 10022
(212) 935-1454

The organization is dedicated to activating the public to fight polluters by informing them of the dangers of pollution. It also urges public support of existing control programs and endeavors to persuade them to demand even greater control measures.

Constitutional Council for the Forest Preserve
David L. Newhouse, Chairman
250 West 157th Street
New York, New York 10019
(212) 265-2818

The Council seeks to further the enhancement and protection of the New York State Forest Preserve as wild forest land. The protection of other natural and environmental resources in the State are also sought by concerned members.

Ecology Action East
Sandy Brownstein, Coordinator
P. O. Box 344
Cooper Station
New York, New York 10003
(212) 533-7695

Rather than deal with merely the symptoms of the ecological crisis (overpopulation, pollution, etc.), EAF is a group of radical ecologists determined to explore and demonstrate the causes of this impending problem as the existing political, economic, and social institutions of domination.

Center for New York City Affairs
Henry Cohen, Director
New School for Social Research
72 Fifth Avenue
New York, New York 10011
(212) 675-2536

The Center is a unit of the New School for Social Research, a private and innovative school concerned with the education of the community in urban affairs. The Center conducts research and disseminates information regarding environmental problems in the New York City area.

Atmospheric Sciences Research Center
Donald M. McClenahan, Assistant Director
State University of New York
130 Saratoga Way
Scotia, New York 12302
(518) 377-6477

The ASRC was established in recognition of the challenging educational and research problems associated with our natural environment. It attempts to define and pursue programs of basic research and education in the sciences. In close cooperation with the Department of Atmospheric Sciences, the center emphasizes study of atmospheric particles. It is actively engaged in investigations of nuclear phenomena, precipitation mechanisms, cloud electrification, weather modification, and air-sea intercourse.

Scientists' Institute for Public Information (SIPI)
Mr. Mark Messler, Field Director
38 East 68th Street
New York, New York 10021
(212) 249-2886

SIPI's primary concern is to seek, inform, and enlist scientists of all disciplines in public information programs. It also serves as the national coordinating body for local science information committees and endeavors to integrate their work. The Institute holds conferences and workshops on technical aspects of social issues so that scientists may exchange ideas, evaluate data, and develop new data where feasible.

Environmental Protection Administration
2345 Municipal Building
New York, New York 10007

National Audubon Society
Charles Callison, Executive Director
1130 Fifth Street
New York, New York 10038
(212) 369-7610

The Audubon Society is an organization for environmental protection which is dedicated to the promotion of conservation of wildlife and natural habitat. It strives to educate man regarding his relationship with and his place within the natural environment as an ecological system.

National Audubon Society
Educational Services
1130 Fifth Avenue
New York, New York 10028

Water Information Center, Inc
44 Sintsink Drive East
Port Washington
Long Island, New York 11050
(516) 883-6780

Handles special reports, research studies, educational materials, etc. Publishes Water Newsletter, whose staff goes through 100,000 pages of water information, technical reports, articles, press releases, private and government publications, and picks out the best material, condenses and rewrites it etc. and mails it out in newsletter form 24 times a year.

American Conservation Association
30 Rockefeller Plaza
New York, New York 10020
(212) 247-8141

The Association was established as a non-profit organization in order to carry out a variety of activities in the field of conservation. Its principal goals are to increase knowledge about environmental problems and enhance the public's awareness of critical issues in fields of conservation, outdoor recreation, and natural beauty. ACA seeks to undertake its own pilot projects as well as to supplement the activities of other agencies, both governmental and private.

Natural Science for Youth Foundation
114 E. 30th Street
New York, New York 10016

Sponsors nature projects for children - museums etc. It offers its services free to any community requesting them. It sets up a non-profit sponsoring organization within the community provides a five year projection of needs, helps raise money, gives advice on acquisitions, provides professional exhibit aid, works with architects on building plans, helps hire personnel, works within the curriculum of the local schools, arranging for them to bring their classes for natural science instruction.

Genesee Valley Environmental Association
P. O. Box 242
Genesee, New York 14454

Develops programs that provide citizen involvement in environmental issues - other Livingston County area communities have used them as models. Behind the organization are successful efforts to spread its type of organization to other parts of the country; to form a glass, paper, and can recycling network; to support a family planning center; to bring about landscaping and other improvements at Livingston Plaza in Genesee.

RESOURCE MATERIALS AVAILABLE:

Environmental Action Coalition
235 E. 49th Street
New York, New York 10017

Send for a list of population books for teachers. Some have good ideas for class projects.

Newsletter: EAC publishes a 6 page, monthly newsletter for children, grades 4-6, Eco-News - it is designed as a curriculum aid, each issue containing explanations of appropriate action projects for children, as well as an annotated bibliography and review of a few children's books on the environment. Each issue also contains puzzles, games, letters, and reports by children on activities related to the lead article. Children are encouraged to answer each others' questions and letters. It stresses the importance of the environment to the urban child.

McGraw-Hill Book Company
330 W. 42nd Street
New York, New York 10036
(212) 971-6345

This company publishes various textbooks and reference books which explore all aspects of environmental studies. A catalogue of such publications is available upon request.

Man Against His Environment
State Univeristy of New York at Albany
State Education Department
Division of Educational Communications
Albany, New York 12224

Newsletter: Environmental Conservation Outdoor Education

University of the State of New York
State Education Department
Division of Health, Physical Education, and Recreation
Albany, New York 12224

Health Science, An Instructional Guide in Human Ecology for Elementary Grades, 570 pp.

Niskayuna Public Schools
Van Antwerp Road and Dexter Street
Schenectady, New York 12309

The University of the State of New York
State Education Department
Albany, New York 12224

Has available publications useful to teachers, superintendents, etc., for planning Earth Week activities, environmental awareness days, etc.

A Directory of Environment Affairs at Syracuse University

Environmental Affairs Office
Syracuse University
Syracuse, New York

Lists courses, books on environmental themes at the university, and faculty members with interests in environmental issues.

Man and His Environment
High Rock Park Conservation Center
Nevada Avenue
State Island, New York, New York 10306

Ecological Resources in New York State's Colleges and Universities, by John H. Vanermeer and Lawrence B. Slobodkin; April 1971, University of the State of New York, State Education Department, Office of Science and Technology, Albany, New York; 130 pp.

This survey is primarily concerned with bioscience departments. It includes directory of New York ecologists, lists of course offerings in ecology, and field sites for ecological studies.

The Environment and the Law in New York Law Colleges

Available from: New York State Education Department, Office of Science and Technology, 99 Washington Ave, Albany, New York 12210.

September 1970, 20 pp.

Environmental Control Course, Curriculum, by James Hall, and Murray Kaufman, Roslyn High School, Roslyn, New York.

Includes: units on ecological principles, historical background of environmental crisis, independent research projects. Each unit accompanied by bibliography.

John Wiley and Sons, Inc.
Professional and Reference Division
605 3rd Avenue
New York, New York 10016
(212) 867-9800

They publish various textbooks and reference books which pertain to all facets of environmental studies. A catalogue of such publications is available upon request.

Important telephone numbers in New York:

Environmental Protection Administration: 566-2716
Air pollution complaints: 566-2730
966-7500

Noise pollution complaints:
personal: POLICE
street noises: 966-7500
helicopter noises: 566-0090
plane noises: 995-2829
Help with planting trees in your neighborhood: 768-1532
Help with collection of large amounts or refuse: 643-4960
Help with establishing a local recycling center: 486-9550
Assistance with organizing a block beautification program: 566-5160
Information regarding environmental programs in New York City: 789-6161
Creating a park on a vacant lot:
city: 433-5813
private: 741-1160
Starting an adult environmental education course: 549-2055
737-7302
Emergency lead poisoning advice and help: 566-1746
566-1725

Directory of New York ecologists, included in ECOLOGICAL RESOURCES IN NEW YORK STATE'S COLLEGES AND UNIVERSITIES; April, 1971, University of State of New York, State Education Department, Office of Science and Technology, Albany, New York; 130 pp.

ECHO NOTES (a newsletter) - published once a month by ECHO (Environmental Clearing House Organization)

Circulation includes all junior and senior high schools and middle schools in Erie County, each member of the Buffalo Common Council, the Erie County Legislature, and the Erie County Environmental Management Council. It is sent regularly to each State Senator and each State Assemblyman from Western New York, each U.S. Senator representing New York, each Congressman from the 37th, 38th, 39th, 40th, and 41st New York District, and to county, state, and federal officials who are or should be interested in the environment, and to all of the Kenmore schools and other elementary schools requesting it (free).

"Street" (a newsletter)
Pratt Institute Center for Community and Environmental Development
240 Hall Street
Brooklyn, New York 11205

This community information bulletin is designed to alert the community to developments in urban renewal, housing and planning.

Environmental Education Curriculum Guide
Community School District 16
State Urban Programs
1010 Lafayette Avenue
Brooklyn, New York 11221

Copyright 1972. About 500 pp to the guide for grades 4-6.

Cooperative Extension Service
New York State
(Cornell University, State University of New York, U.S. Department of Agriculture)
87 Maple Avenue
New York 10965
638-0500

Has pamphlets with Environmental Education suggestions.

POSSIBLE RESOURCE PEOPLE:

Terrance Barlow, Science Teacher
Northeastern Clinton Central School
Junior High Science Department
Mooers, New York 12958
(518) 236-7141

He has included an E.E. unit in his eighth grade science curriculum for the past two years.

Milton Kopelman, Chairman
Biology Department
Bronx High School of Science
75 West 205th Street
Bronx, New York 10468
(212) 295-0200

Herman S. Forest
Professor of Biology (Environmental Management)
SUNY College
Geneseo, New York

He writes and teaches in the environmental field.

Terence McCormick, Science Coordinator
Johnson City Central School District
666 Reynolds Road
Johnson City, New York 13790
(607) 729-9211 Ext 84

Katherine Tucker
Science Department Chairman
Penfield Senior and Junior High Schools
Penfield Central School District #1
Penfield, New York 14526

Joan Rosner
Ecology Curriculum Development
District 30, Queens
42-15 Crescent Street
New York, New York

Donna DeSeyn
Science Conslutant and
Director of the Earth-Space Science Education Center
Fairport Central School
Fairport, New York

William Bet
Director of Open Environmental Education
Wave Hill Inc.
New York, New York 10471
(212) 549-2055

Also, Adjunct Instructor of Education, Fordham University.

Miss Laura E. Freed
Program Manager
Keep America Beautiful, Inc.
99 Park Avenue
New York, New York 10016
(212) 682-4564

Beatrice Fried
Science Coordinator
2 Linder Boulevard
Brooklyn, New York

Sam Fried
Bureau of Science
131 Livingston Street
Brooklyn, New York 11201

Graham S. Finney
Addiction Services Agency
71 Worth Avenue, Room 500
New York, New York 10013

He is a user of GEE materials.

Dr. Howel
Rachel Carson College
SUNY
Buffalo, New York
(716) 831-3913

Richard Hatch, President
C. Richard Hatch Associates
Educational Materials and Founding Director
Architects Renewal Committee on Harlem

Jeanne Goodwin
International Office
National Audubon Society
New York, New York

Edmund Gordon
Columbia University
Division of Health Services, Sciences and Education

Mr. Alan Green, Secretary
Educational Facilities Laboratories
447 Madison Avenue
New York, New York 10022

Dale Hesser
Cicero High School
Cicero, New York

William Harley
Urban Archeologist
New York City Community College
New York, New York

H. F. Hemmerich
U.N. Trust Fund for Population Activities
United Nations
New York, New York

Wayne Kines
Center for Economic and Social Information
Room 1061, United Nations
U.N. Secretariat Building
New York, New York 10017

Alex McKay

An English teacher by profession, but long interested in the outdoors, conservation, and nature education. Currently president of the Huntington Audubon Society, has directed education field trips and spoken of environmental issues at public hearings and community group meetings. As once director of the Long Island Environmental Council, he helped gather data for the Temporary State Commission on Youth Education in Conservation. He was recently elected director of "Action for the Preservation of the North Shore, Inc." and served on Huntington Township's blue ribbon panel to draft an oil pollution ordinance. As an educator, he has been keenly interested in the use of film, multi-media, and interdisciplinary approaches.

Jerry E. Passer
Assistant Director of Conservation Education
New York State Department of Environmental Conservation
Albany, New York

He has acted as consultant for the New York State Museum and Science Service and for the New York State Education Department in conferences and workshops on outdoor education. He has directed numerous in-service teacher education courses and a summer resident conservation education program for youth. He has served also as Vice President of the New York State Outdoor Education Association.

Michael Cavitt
Carnegie Endowment
New York, New York

Dr. Margaret Mead

Curator of Ethnology Emeritus at American Museum of Natural History
Adjunct Professor of Anthropology at Columbia University
President for Scientists' Institute for Public Information

Dr. Duryea Morton
Director of Education
National Audubon Society

Mrs Martha E. Munzer
Wave Hill Center for Environmental Studies
675 West 252
Bronx, New York 10471

Bertram Spector
New York Institute of Technology
Vice President for Research

Professor LaMont Cole
Cornell University
Ithaca, New York 14850

Mr. Arthur Mittelstaedt, Chairman
Board of Planning Associates
Education and Recreation Consultants, Inc.
291 Hempstead Avenue
West Hempstead
Long Island, New York 11552

Ian Pearis
Youth Service
New York, New York
961-2803

Part of National Environmental Service Program.

R. Freeman Butts
Columbia University
New York, New York

Merle Knight
Assistant Coordinator for the Social Studies
The Education Council
Long Island, New York

Also, Director of Center for Economic Education and professor of Economics,
State University of New York, Oneonta.

Tom Stokes
Environment Mobilization Fund
13 East 16th Street
New York, New York 10003
(212) 741-1160

Member of Ecology Center Communications Council.

Brother Albert Clark
Head of Department of Religious Studies
Manhatten College
Bronx, New York 10471
(212) 548-1400

Mr. Philip W. Quigg
Project Director
World Directory of Environmental Studies
United Nations Plaza
345 East 46th Street
New York, New York 10017

Phyllis Busch
Director of SPRUCE

A New York State Project on Conservation Education - Title III.

Arthur P. Cooley, teacher
Bellport High School

Currently a trustee of the Long Island Chapted of Nature Conservancy and Chairman of its Technical Advisory Committee, and Trustee and Vice Chairman of the Environmental Defense Fund. He has served as Chairman of Brookhaven Town Natural Resources Committee, and has taught marine biology.

Leonard Clark
District 16
State Urban Programs
1010 Lafayette Avenue
Brooklyn, New York 11221

Ned Ames
Division of National Affairs, Resources, and Environment
The Ford Foundation
New York, New York

Charles Basset, Director
Northshore Junior Science Museum
P. O. Box 223
Roslyn, New York

Dale Lake
Program Associate
Program in Humanistic Education
State University of New York at Albany
Albany, New York

His particular area of expertise is in developing curricula in humanistic education. His field of specialization includes the area of organizational development.

Bill Bought
F. A. 218 Environmental Forum
State University of New York at Albany
1460 Washington Avenue
Albany, New York
457-3913

Dr. Alfred Eipper, Asso. Prof. of Fishery Biology
Department of Conservation
Cornell Univeristy
Ithaca, New York 14850

One of SIPI's affiliated science information committees.

Gerald VanOrden
DeWitt Junior High School
Ithaca, New York

Writer of Environmental Studies Curriculum.

Donald Burns
Science Curriculum Specialist, Elementary
Freeport Public Schools
P. O. Box 50
Freeport, Long Island 11520

Allen R. Seed, Jr.
Executive Vice President
Keep America Beautiful, Incorporated.
99 Park Avenue
New York, New York 10016
(212) 682-4564

Lloyd Sherman
Benjamin Franklin High School
New York, New York

Writer of Environmental Studies Curriculum.

Dr. Eugene M. Ezersky
WNYE-TV
112 Tillary Street
Brooklyn, New York

A director of the E.E. project of the Educational Facilities Laboratories, Inc. in New York. He is the author of City to Country, a feasibility study for outdoor education in New York City. He produced and directed a TV program Drugs, A Primer for Teachers, and has lectured at New York University.

Stephen Viederman, Assistant Director
Demographic Division
The Population Council
245 Park Avenue
New York, New York 10017
(212) 687-8330

Irene Shapire
Teacher of Urban Ecology
Bronx High School of Science
New York, New York

Paxton Dunn
U.S. Mission
United Nations
New York, New York

Mr. Paul Feidsher or
Miss Susan B. Williams
c/o Dr. William P. Mangin
Department of Anthropology
Syracuse University
Syracuse, New York 13210

They did a study "Sociological Impact of Radical Environmental Change on a Group of Seneca Indians" and presented a paper at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Walter K. Muench
c/o Dr. J. L. McHugh
Department of Marine Resources
State University of New York - Stony Brook
Stony Brook, New York 11790

Douglas Spicer
International Population Program
Cornell University

Contributed to Population Curriculum Study, University of Delaware.

Jonathan Swinchatt
Colgate University
Hamilton, New York

Writer of Environmental Studies Curriculum.

Richard Pough, President
Natural Areas Council
Open Space Action Institute
145 E. 52nd Street
New York, New York 10022
(212) 421-0732

Tristram Pough
Open Space Action Institute
145 E. 52nd Street
New York, New York 10022

Mr. George Panoussis
c/o Dr. P. C. Wang
Department of Civil Engineering
Polytechnic Institute of Brooklyn
Brooklyn, New York 11201

He did a study "Engineering and Psychological Studies of Vibrations in New York" and presented a paper at the December 1971 meeting of the American Association for the Advancement of Science.

Miss Gloria Gardocki
c/o Dr. Philip H. Ramsey
Department of Psychology
Hofstra University
Hempstead, New York 11550

She did a study "The Social, Psychological, and Demographic Variables which Influence Family Size and Population Growth Rates" and presented a paper at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Robert Bannister
c/o Dr. Harold Kibby
Department of Biological Sciences
State University of New York - Brockport
Brockport, New York 14420

He did a study "Pollution Survey of the New York State Barge Canal" and presented a paper at the December 1971 meeting of the American Association for the Advancement of Science.

William T. Burke
Professor of Biology and Director of the Division of Natural Science.
Southampton College
Long Island University

His current interests relate to the fields of Science and Society, the Social Responsibility of Scientists, and Man and his Environment.

George C. Berg, Ph.D.
Associate Professor of Radiation Biology and Biophysics
University of Rochester
Rochester, New York
Helped prepare SIPI workbook on water pollution.

Mr. Holt Bodinson
Director, Division of Educational Services
New York State Department of Environmnetal Conservation
50 Wolf Rd.
Albany, New York

Rose Blaustein
Science Coordinator, District #2
Public School 116
210 E. 33rd Street
New York, New York 10016

Richard Billings, Executive Director
Associated Islands
Thousand and Henders in Harbor, New York

Dr. Alschuer
Professor of Psychology
New York University at Albany
Albany, New York

Professor Rene J. Dubos
Rockefeller University
York Avenue and E. 66th Street
New York, New York 10021

Mr. Peter S. Hunt
832 Palmer Road
Bronxville, New York 10708
(914) 793-3859

Member of the National Advisory Council on E.E. Consultant who has developed an environmental studies program at Sarah Lawrence College, where he is also a professor of Environmental Management and author of environmental articles.

Donald Keys, Director
World Association of World Federalists
New York, New York

Sylvester King
New York, New York
Member of advisory committee, Earth Science Education Program

Mr. Kenneth Kowark
Executive Secretary
New York State Action Clean Air Committee

Ted Lorff
Urban Education Coordinator
Superintendent's Office
223 Grahm Avenue
Brooklyn, New York 11206

Mr. Chester Mattson
Adminstrative Aide to the Executive Director
Hackensack Meadowlands Development Commission

Antory A. Kennedy
Center for Housing, Building, and Planning
United Nations
New York, New York

Dr. Ralph Lapp
Nuclear Physicist
Manhattan Project

Author, The Weapons Culture.

Estelle Linzer, Consultant
The Johnson Foundation
866 United Nations Plaza
New York, New York
(212) 755-7361

Mrs. Robert London, President
Federated Conservationists of Westchester County, Inc.
White Plains, New York

Herbert Karp
District #21
Supervisor of Ecology
345 Van Sicklen Street
Brooklyn, New York 11223

William Felling
Office of Resources and Environment
The Ford Foundation

Richard A. Madigan, Executive Director
Wave Hill Center for Environmental Studies
New York
675 W. 252nd Street
Bronx, New York 10471
(212) 549-2055

He is devoted to the public understanding of man's environment.
Home Address: 111 Hillcrest Avenue
Yonkers, New York 10705

Bernard C. Smith
Northport, New York

New York State Senator, Chariman of Conservation and Recreation Committee in the New York State Senate.

Victor A. Fitchlee
Middleport, New York

Retired Engineer, Harrison Radiator Corporation Division of General Motors, Soil and Water Conservation District County Chairman, Chairman County Youth Conservation Education Advisory Committee, Member of New York State Conservation Council, Vice Chairman of New York State Soil Conservation Districts Association.

Mrs. Nancy Ayers
Endwell, New York

Executive Director of Susquehanna Environmental Education Association, Vice President for Educational Development in New York State Outdoor Education Association, Conservation Consultant.

Harold Evans
Riverhead, New York

Earth Science Teacher, Chairman Suffolk County 4-H Division Program Committee and Suffolk County 4-H Outdoor Education Committee, National Science Teachers Association, National Education Association, Audubon Society, Farm Bureau, Nature Conservancy.

John I. Green
Canton, New York

Associate Professor of Biology, St. Lawrence University, summer instructor Woods Hole Childrens School of Science, Cold Spring Harbor New York

Childrens School of Science, Associate Director St. Lawrence County Soil and Water District, Chariman St. Lawrence County Conservation Education Committee.

John A Gustafson
Homer, New York

Chairman Biology Department, State University College at Cortland, Fellow and member of Council, American Association for the Advancement of Science, Associate Editor American Nature Study Society, Vice-Chairman Eastern Susquehanna Water Resources Board, Wilderness Society, Nature Conservancy.

George S. Miller, Jr.
East Hampton, New York

Chief, Milk and Food Protection, Division of Environmental Health Services, Suffolk County Department of Health, Chairman Conservation Advisory Council Town of East Hampton, Chairman Springs School Board, Member Advisory Committee Food Technology Department, State University Agriculture and Technical College Farmingdale, member of Fire Island National Seashore Advisory Commission, East Hampton Planning Board.

Daniel Smiley
New Paltz, New York

Administrator of the Mohonk Trust, Research Associate in Biology, Union College, Schenectady; Research and Records Committees, John Burroughs Natural History Society; member of Steering Committee, Catskill Center for Conservation and Development; co-owner of Mohonk Mountain House.

John Stookey
Williamsville, New York

Vice President, and General Manager, Erie and Niagara Insurance Company, Director New York State Forestry Owners Association, National and New York State Christmas Tree Growers Association, New York State Conservation Council, former Extension Agent and Chairman of 4-H Conservation Committee.

Henry L. Diamond
Commissioner of Environmental Conservation
State of New York
Port Washington, New York

Alexander Aldrich
Commissioner of Parks and Recreation
State of New York

Barry Jamason, Coordinator, Environmental Education
New York State Education Department
Albany, New York 12224

Commissioner Nyquist's representative to the Subcommittee and Chairman of the Environmental Education Task Force, State Education Department.

Holt Bodinson
Nassau, New York

Commissioner Diamond's representative to the Subcommittee and Director, Division of Educational Services, Department of Enviornmental Conservation.

Jerry Passer
Scotia, New York

Commissioner Diamond's representative to the Subcommittee and Director of Education Bureau, Division of Educational Services, Department of Environmental Conservation.

Robert Young

Commissioner Aldrich's representative to the Subcommittee and Special Assistant to the Commissioner.

William E. Andrews

Advisory Committee member, Syosset, Junior High School Teacher.

Jerome Bartow

Advisory Committee member, New York City, affiliated with International Telephone and Telegraph Corporation.

Robert J. Becker

Advisory Committee member, Williamsville, Student, Niagara University.

Myron H. Blumenfeld

Advisory Committee member, Port Washington, Sales Manager, Bloomingdale's, Chairman of Residents for a More Beautiful Port Washington, Inc.

George Broadwell

Advisory Committee member, Ithaca, affiliated with Cornell University.

Harlan Brumsted

Advisory Committee member, Ithaca, affiliated with Cornell University, Professor of Conservation Education.

Willard F. Croney

Advisory Committee member, Ithaca, State Conservation Committee at Cornell University, Executive Secretary to New York State Soil and Water Committee.

Theodore Eckert

Advisory Committee member, Buffalo, Science Department, State University College at Buffalo.

William Fullagar

Advisory Committee member, Rochester, Professor, School of Education, University of Rochester.

David Hanselman

Advisory Committee member, Syracuse, Coordinator, Environmental Communications, College of Forestry, Syracuse University.

W. Theodore Hebel

Advisory Committee member, Syracuse, Assistant to State Conservationist, Soil Conservation Service.

Ray Hoemke

Advisory Committee member, Williamsville, sports broadcaster.

Joseph Lindenvayer

Advisory Committee member, Herkimer, 4-H Cooperative Extension Agent.

James R. Manwaring

Advisory Committee member, Syracuse, Director of Administrative Placement, Director of School Services, Coordinator Central New York School Boards.

Edgar M. Reilly, Jr.

Advisory Committee member, Albany, Curator, Zoology, State Science Service.

Robert Reinow

Advisory Committee member, Albany, author and professor, Graduate School of Public Affairs, State University of New York at Albany.

James H. Richter

Advisory Committee member, Williamsville.

Richard L. Robinson

Advisory Committee member, Ransomville, teacher.

Irwin Rosenstein

Advisory Committee member, Albany, Coordinator in Outdoor Education, State Education Department.

John A. Weeks

Advisory Committee member, Sherburne, Director, Rogers Conservation Center.

Dr. Frank Thompson, Director
ECOS Project
Putman-Northern Westchester BOCES
Bldg. 6, 845 Fox Meadow Road
Yorktown Heights, New York 10598.

Nancy Ayers
(607) 748-1298
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Brooklyn Poly-tech

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Pratt Institute
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Barry Kaplan
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Kristin P. Bergfeld

David Newton
Broom Comminity College

Mr. Wilfred Martin
East-Syracuse-Minoa School District #1

Kent Reeves
State University of New York

Dr Irwin Rosenstein
(518) 474-5827

Dr. Eric Beamish
State U. at B.
(518) 457-2830

Dr. John McHale, Director
(607) 798-2871

Ralph Duffy
Bessel Jr. High
(607) 757-2267

Bernard R. Kaplan
Public School 70
Bronx, New York
878-7085

Marie Morrison, Professor of Geology
In-Service Secondary Teachers
State University at Binghamton

Richard Jarvis, Campus Forester
State University at Binghamton
(607) 798-2224

Norman Sheliak
Great Neck Public Schools
(516) 221-4620

John Culligan
Center for Integrated Studies
(607) 798-2523

PENNSYLVANIA

STATE E.E. CONTACT:

Mr. Robert Schwille
Senior Program Adviser, Environmental Education
Pennsylvania State Department of Education
P. O. Box 911
Harrisburg, Pennsylvania 17126
(717) 787-5423

Mrs. Eleanor Bennett
Environmental Education Adviser
Pennsylvania State Department of Education
P. O. Box 911
Harrisburg, Pennsylvania 17126
(717) 787-5423

E.E. STAFF:

The Environmental Education Component of the Division of Interdisciplinary Programs, Bureau of Curriculum Services, Pennsylvania Department of Education plans to: 1. Identify target schools, 2. Field test materials, 3. Acquire, develop and disseminate materials

STATE PLAN ACTIVITIES:

A 16-member Environmental Education Advisory Council has been appointed by Gov. Milton J. Shapp to study the current status of environmental education in the Commonwealth and recommend development and implementation of expanded environmental education.

The Council will be directed in its work by Dr. John Hug, Director, Environmental Education for the Western Pennsylvania Conservancy, who will remain on the Conservancy's payroll while devoting half-time to the Council.

Council appointees were recommended by DER Secretary Maurice K. Goddard and Education Secretary John C. Pittenger.

The group, which must make its final report by January 1, 1974, is to study five basic questions:

-What is the current status of environmental education in Pennsylvania;
-In what ways can environmental education be expanded and improved;
-What additional curricular resources would be needed to bring about such expansion and/or improvement;
-What additional teacher training programs, preservice or in-service, would be needed to bring about expansion or improvement; and
-How can the resources of the Department of Environmental Resources be integrated into a comprehensive program of environmental education.

As part of its final report, the Council is expected to recommend for possible development and publication instructional packets, films and supportive curricular materials to assist local school districts in implementing a comprehensive environmental education program.

MEMBERS

Named to the Council with Dr. Hug were:

Ralph W. Abele, Executive Director, Pennsylvania Fish Commission; Peter S. Duncan, Executive Secretary, Joint State Legislative Air and Water Pollution Control and Conservation Committee; Dr. Ruth Hayre, Superintendent, District 4, Philadelphia School District.

Also, Matthew W. Hickey, Director, Knowledgeable Action to Restore the Environment (KARE); Dr. John F. Jarvie, Northwest Tri-County Intermediate Unit, Erie; Thomas G. McCloskey, Executive Director, Citizens Advisory Council, DER; George Miller, Vocational Agriculture Teacher, Brockway School District, and Vice-President, Pennsylvania Association of Conservation District Directors, Inc.

And Dr. John Moss, Chairman, Environmental Studies, Franklin and Marshall College, Sandra Raymond, Director. Luzerne-Lackawanna Environmental Council; Louis Ritrovato, Director, Nolde Environmental Education Center; Dr. Richard D. Schein, Director, Office of Environmental Quality Programs, Pennsylvania State University.

Also, Dr. J. William Shiner, Chairman, Recreation Department, and Director, Teacher Preparation Program in Environmental Education, Slippery Rock State College; Mrs. Erma Thompson, Secondary Social Studies Teacher, Pittsburgh School District; Grant White, Ecologist, Pennsylvania Power and Light Company; and H. Stanley Wills, Director of Basic Education, Pennsylvania State Education Association.

LEGISLATION:

There is no legislation, either passed or pending, concerning environmental education. There is, however, the following curriculum mandate stated in March, 1969:

> *Conservation and outdoor education shall be part of the instructional program in every school. This instruction may be presented in separate planned courses or integrated into other courses...*

E.E. ACT P191-516 PROGRAMS FUNDED FOR 1973:

"Resource Materials Development"
University of Pittsburgh
412-621-3500

Lu-Lac Environmental Education Council
Sandy Raymond, Director
717-961-2033

Northeast Pennsylvania Education Television Association
The Public Broadcasting Center
Carole M. Baldino
Pittston, Pennsylvania
717-655-4561

The following are ESEA Title III Programs:
Contact:

James Blair
Title III Information
Harrisburg, Pennsylvania
(717) 787-7135

Project Life - Elementary (K-8)
Living Instruction for Ecology
Central Greene School District

Integration of ecological concepts with the sciences, arts, human interests and human interactions with their environment.

Environmental Transdisciplinary Involvement Program
Fox Chapel School District

Development of teacher-student environmental activities permit the student to explore in his environment and develop his talents according to his needs and interests. Program is an adaptation of the National Environmental Education Development Program developed by the National Park Service

Tayamentasachta (K-10)
Center for Environmental Studies
Greencastle-Antrim School District

The Environmental Center student activities are coordinated and developed as a part of the school curriculum at each grade level. The Director provides in-service training for classroom teachers, teacher demonstration lessons and conducts necessary environmental encounters for teachers and students.

Environmental Education (for academically talented students)
Theory and Practice Grades 4, 5, and 6
McKeesport School District

Academically talented students consider how environmental problems are related to population and human geography and disseminate this information to the community.

Environmental Education Elementary (K-6)
State College School District

Students identify, interpret, predict, measure, compare contrast man's effect upon the environment and its effect on him.

Environmental Education (K-12)
Shikellamy School District

Identification of a progressive sequence of ecological themes and concepts for each grade level.

Total Involvement in Ecological Education
Grades 6, 7, 8, 9
Hollidaysburg Area School District

Students and teachers will demonstrate the need for an understanding and possible solution between the inbalances of society buyers - the rapidly growing sum of human wants and the limited capacities of the earth. An environmental study area adjacent to the elementary school will also result from this project.

Penns Valley
Community Environmental Center Middle School (6,7,8)
Penns Valley School District

Extend development of the Land Resources Center, write curriculum and provide in-service training for teachers.

Environmental Awareness
Secondary
Millersville State College

The project introduces students to the nearshore marine environment. Secondary students from Pennsylvania School Districts conduct surveys of marine populations, measure salinity, temperature, oxygen content light, currents, tides, turbidity and waves and analysis of man made marine environmental problems.

Area's Natural Resources
Secondary
Philipsburg Oceola School District

A program for newly certified Biology teachers to interact with students as they participate in community environmental projects.

Penncrest School District
Secondary
Randolph-East Mead High School

A student centered environmental study program. Teacher serves as a facilitator of learning and provides resources to the students, i.e., scientific equipment, audio-visual resources and identify area for environmental studies.

Environment Living Through Language Arts
7-12
Clairton City

A student-teacher language art-environmental education project.

Open-Space Non-Gradedness
Southside Area School District
R. D. #1
Hookstown, PA 15050

Elementary program (K-6) of open-space with emphasis on outdoor education, ecology, mathematics, science, industrial arts, and home economics.

1. Design and implement instructional systems for an open-space, non-graded learning environment.
2. Conduct in-service programs for staff members, designed to intensify and reinforce their knowledge of ecology, home economics and industrial arts.
3. Design a post-evaluative assessment of the cognitive and affective student gains from the open-space non-graded approach to learning.

ESEA Title III Section 306 Programs

Knowledgeable Action to Restore the Environment (KARE)
Intermediate Unit #23, Montgomery, Bucks, Chester, Delaware and Philadelphia Counties

Matthew Hickey, Director
Colony Office Building
Route 73 and Butler Pike
Blue Bell, Pennsylvania

The design of Project KARE was developed over the past years by a steering committee representing the participating school intermediate units of Bucks, Chester, Delaware, Montgomery, and Philadelphia counties. The Montgomery County Intermediate Unit serves the local educational agency.

Initial project activities focused on the development of a productive framework for coordination and direction of efforts in environmental education throughout the five-county region. A resource center was established in order to provide students, teachers, industry and community with information, research findings, and materials relating to environmental education. Advisory councils were organized for the purpose of obtaining guidance and support for Project KARE activities. The advisory councils also serve as sounding boards, consultants/speaker bureaus and curriculum resources.

In addition, 15 financial grants were awarded in support of action programs in environmental education conducted by local schools under direction of Project KARE. All 71 public school systems and more than 200 nonpublic schools in the five county areaare eligible for the grants of up to $7,000 each. It is anticipated that noteworthy action programs will serve in subsequent years as alternative model approaches for environmental education in our schools. The action programs initiated activities in January, 1972 and continued through 1973.

Local Action Programs, Projects Funded for 71-72

Rhodes Middle School/Philadelphia School District
Strawberry Mansion Junior High School/Philadelphia School District
Friends Select School/Philadelphia School District
Belmont Hills School/Lower Merion School District
Parkway Program/Philadelphia School District
Benjamin Franklin High School/Philadelphia School District
Walnut Street School/Darby-Colwyn School District
Chestnutwold School and Blessed John Neumann School/Haverford Township School District
Central Bucks West High School/Central Bucks School District
William Tennent High School/Centennial School District
Upper Dublin High School/Upper Dublin School District
Lower Moreland Middle School/Lower Moreland Township School District
Roman Catholic High School/Archdiocese of Philadelphia
Stewart Junior High School/Norristown Area School District
West Chester Area School District

Local Action Programs, Projects Funded for 72-73

Thomas Edison High School/Philadelphia School District

Unionville-Chadds Ford Junior-Senior High School/Unionville-Chadds Ford School District
O. V. Catto School/Philadelphia School District
Chester High School/Chester-Upland School District
Downington Area Secondary Schools/Downington School District
Conestoga High School/Tredyffrin-Easttown School District
Parkway Program, Delat Unit/Philadelphia School District
Avon-Grove High School/Avon-Grove School District
Rolling Hills Elementary School/Council Rock School District
Cheltenham High School/Cheltenham School District
Rhodes Middle School/Philadelphia School District
Haverford Senior High School/Haverford School District
Perkasie Elementary School/Pennridge School District
Lehigh Elementary School/Philadelphia School District
Northeast Junior High School/Philadelphia School District
Eisenhower Senior High School/Norristown School District
Germantown Friends School/Philadelphia
Roman Catholic High School/Archdiocese of Philadelphia
Alternative West High School/Radnor and Lower Merion School Districts
Upper Perkiomen Middle School/Upper Perkiomen School District

Nolde State Park Environmental Education Center

Louis Ritrovato, Director
Nolde Forest State Park
R. D. #1, Box 392
Reading, Pennsylvania 19607

The Nolde Forest State Park Environmental Education Center was funded under ESEA Title III, Section 306. The formal proposal, *"An Interdisciplinary Problem-Solving Approach to Environmental Education"* was originally conceived and developed by a large number of public-spirited individuals, school administrators of an 11 county area, planning in cooperation with the Bureau of State Parks and the Berks County School Board.

Within the next three years the Bureau of State Parks has committed Project 500, funds to construct and develop an administration service area, operational service area. The Mansion house has been renovated to include education, administrative, and other support facilities for the center. The field study areas include various eco-systems with diverse habitats for the study of water, earth, biological, meteorological, and heritage resources.

An integrated complex of trails is developed to facilitate field study activities to promote the interdisciplinary understanding of our environment.

The center dedicated itself to the development of an educational process, with the fundamental aim to change attitudes so that man can understand and appreciate his role in the nature of things, and be motivated to do something constructive concerning his environment.

The program design encompases participants from pre-school programs, elementary and secondary schools, institutions of higher education, adults and out-of-school youths and a separate component for the handicapped.

The current activities include the student demonstration project involving 70 fifth grade classes. The teachers participate in an orientation instruction program. Curriculum materials are being developed.

A comprehensive guided year-round field trip program is available to all student groups visiting the center.

Programs to be developed will be: Resident, Curriculum Development, Nature Center, Development of School Grounds, In-Service, Consultant Service, Teacher Training Curriculum Dissemination, Newsletter Development, Student Teacher Training, High School Student Research, Academically Talented Elementary Students, Learning Resource Center, Audio-Visual Materials Development, Natural History, Ecological and Environmental Library and Evaluation Technique and Design Development. 5th and 7th grade demonstration programs in Interdisciplinary Problem Solving. Develop learning process dealing with local environmental problems. All cooperating teachers have been in-services and have cosultive help from the Nolde staff. Also working with 625 special education students. Total of 11,000 student day visits to Nolde.

5th grade program in 7 counties:

Berks County–Reading, Wymissing, Governor Mifflin, Twin Valley, Muhlenburg and Reading Catholic School Districts
Lancaster County–Eastern Lancaster County School District
Lebanon County–Annville-Cleona School District
Lehigh County–St. Margarets Elementary School, Diocese of Allentown
Montgomery County–Upper Merion School District
Northampton County–Northampton Area School District
Schuylkill County-Blue Mountain and Tamaqua Area School Districts

7th grade programs in 6 counties:

Berks County–Brandywine, Muhlenburg, Governor Mifflin, Antietam, Tulpehocken School Districts
Lehigh County-St. Peters School and St. Pauls School/Diocese of Allentown
Lancaster County-Conestoga Valley and Cocalico School Districts
Lebanon County–Eastern Lebanon County School District
Northampton County-Easton Area School District
Montgomery County-Boyertown Junior High School

COLLEGES WITH APPROVED ENVIRONMENTAL EDUCATION PROGRAMS

Initial approval to:

Shippensburg State College
Slippery Rock State College
West Chester State College
Mercyhurst College
California State College

Proposals for Environmental Education Programs:

Allegheny College
Thiel College
Lock Haven State College
Pennsylvania State University

PROGRAMS AND ACTIVITIES

Allegheny County Environmental Coalition (ACEC)
Mrs. Howard Hays, Chairman
204 5th Avenue
Pittsburgh, Pennsylvania 15222

ACEC works closely with the Western Pennsylvania Conservancy. It does not have any E.E. programs of its own. The only connection with E.E., outside of the member groups individual interest, will be a community information clearing house which will be staffed by volunteers. This will serve to answer citizen's questions on the environment.

Association of Conservation District Directors, Inc.
Aaron Stauffer, President
R.D. 1, Ephrata, Pennsylvania 17522

School site development project with local school cooperation. Workshop for Executive Assistants from 50 counties to help districts reach their goal of promoting Outdoor Environmental Education sites at the local school level.

Birth of a TREE
Arthur Creelman
Pennsylvania Department of Environmental Resources
Bureau of Forestry
P. O. Box 1467
Harrisburg, Pennsylvania 17120

The second annual *"Birth of a Tree"* program, sponsored by the Department of Environmental Resources, was staged in the spring of 1973 for the benefit of Pennsylvania's third grade and elementary special education school children.

This program, which last year provided a quarter of a million youngsters with a meaningful and practical experience in conservation, was initiated by the Department's Division of Forest Protection, in the Bureau of Forestry, in cooperation with the Pennsylvania Department of Education.

Environmental Ed TV Series
Robert W. Schwille
Senior Program Adviser Environmental Education
Department of Education
Box 911
Harrisburg, Pennsylvania 17126

An environmental education television-film series, *"But Where Will The Earth Land,"* has been developed for use by school districts and intermediate units in Pennsylvania.

The series, consisting of 15 twenty minute films, depicts the spaceship-earth concept and nature's limited basic life support systems–air, water and land.

Developed for the Pennsylvania Department of Education by the Allegheny Educational Broadcasting Council and Pennsylvania State University, the films are directed at middle school pupils. A committee of state and local educators and educational television stations personnel helped prepare the series. The series consists of:

"But Where Will The Earth Land?"
"Land - They Call It Real Estate"
"Water - A Quiet Flow"
"The Web of Life"
"Nova - Technology"
"Another One - Population"
"Only Two People In The World - Recreation"
"The Law, The Environment and You"
"Energy"
"The Rivers Home"
"An Ocean of Air"
"Insect Control"
"Fifteen Billion Hot Dogs Aren't Enough"
"I Know Where I'm Going Because I Know Where I Am"
"An Environmental Ethic"

Environment 2000
Miss Velma Hart, Director
TB and Health Society
630 Janet Avenue
Lancaster, Pennsylvania 17601
(717) 397-5203

Clean Air Program - all Lancaster County Schools involved.

Environmental Impact of Electric Generation-Nuclear and Fossil

John McDermott
Senior Program Adviser Science Education
Department of Education
Box 911
Harrisburg, Pennsylvania 17126

The Pennsylvania Department of Education has developed a mini-course for secondary schools and adults which presents a balanced, unbiased study of the environmental benefit-to-risk ratio associated with the generation of electrical energy by either conventional or nuclear means. Available for fall 1973.

Environmental Planning and Information Center, Inc. (EPIC)
Thomas Dolan, Executive Director
313 South 16th Street
Philadelphia, Pennsylvania 19102
(215) 732-1958

EPIC was established in January 1970 *"to assist and support those organizations and individuals working responsibly to improve the environment."* It is a private, non-profit organization supported entirely by foundations. EPIC's ultimate goal is to inform the public by supplying environmental information on a statewide basis.

EPIC activities include:

a. a completed study for possible reorganization of the state government entitled, *"A New Direction for the Future."*

b. a study on the feasibility of Town Conservation Commissions.

c. a current project to identify all environmentally oriented organization within the state

d. an attempt to develop dialogue between industry and competing interests through a series of forums on neutral ground at Pennsylvania State University.

Career Education in Natural Resources
Grant OEG-71-4432

James H. Mortenson
Agriculture Education
Pennsylvania State University
University Park, Pennsylvania 16802

Natural Resource Education in Grades K-6, a guide for elementary grade teachers

Exploring Occupations in the Natural Resources, a resource booklet for students in grades 7, 8, and 9.

Career Education in the Natural Resources, a suggested high school curriculum guide for administrators, teachers and guidance counselors.

Career Education in Natural Resources, a suggested guide for administrators of post-secondary programs.

The Garden Club Federation of Pennsylvania

Ruth Boyles
111 The Maples
Pittsburgh, Pennsylvania 15215

People and Their Environment (PATE) books supplied to schools by Garden Club members on a local basis.

Group for Environmental Education (GEE)
Alan Levy
1214 Arch Street
Philadelphia, Pennsylvania 19107
(215) 564-4403

GEE is a non-profit corporation engaged in teacher training, development of innovative curriculum materials and of programs in learning areas related to man's interaction with his physical surroundings. It works on two parallel paths - teacher training and development of resource materials.

Much of GEE's work is carried on outside of the state. They have developed one workbook and are currently working on the second and third books of the series.

Lu-Lac Environmental Council
Environmental Education Act Funded

Sandra Raymond, Director
Luzerne-Lackawanna Environmental Council
415 North Washington Avenue
Scranton, Pennsylvania 18503

Regional environmental water monitoring, operation fish watch on the Lackawanna River at 12 sites. Suckers in traps and monitored by eight schools involved. Schools are: Valley View High School, North Scranton Junior High School, West Scranton High School, Riverside, Old Forge High School, Pittston Area High School, Wyoming Area High School, Sell Junior High School.

Involved with teacher education and in-service.

Barbara Swaczy
Director of Environmental Education

Foresight 80 Network Environmental Project

West Hazelton Schools
Freeland High School
Exeter Junior High School
Wyoming Valley West High School
Kingston Central Catholic
Tunkhannock High School
Abington Heights Senior High School
Dunmore Senior High School
South Scranton High School

8 teacher-student workshops

April 16, 1973 - 1/2 day in-service for 21 teachers in the program.

School Commitment Program, May 18 weekend. Administrators, teachers and students at Dingmans Ferry. How to build environmental education concepts into the curriculum (whatever subject they teach). Intermediate Units 18 and 19 are sponsoring the workshops.

Individual school projects include recycling campaigns, tree planting and inventory of outdoor education sites.

Montour Preserve
Harry T. Barnes, Director
Pennsylvania Power and Light Company

In-service for teachers of 3, 4, and 5th grades. Had special program for children. Total Environmental Program–Participated in Environmental Activities at the Preserve.

Pennsylvania Federation of Women's Clubs and the Pennsylvania Bureau of Forestry

Mrs. Millard Turner
110 West 35th Street
Erie, Pennsylvania 16508

Pennsylvania Youth Conservation Week. To honor youth organizations and conservation projects developed by them at the state and local level. Ceremonies to be held at six regional locations.

Aims of PYCW;

1. To stimulate within established youth organizations an interest in and enthusiasm for conservation;

2. To instruct our young people in the multiple use of resources of land, water, minerals, forests and wildlife of the Commonwealth; and

3. To induce adult organizations to work earnestly for conservation education by aiding and assisting youth groups in their projects.

Population Dynamics

The Bureau of Curriculum Services has developed mini-courses in Population Dynamics including The World, Nature, The Economy, Society and The Individual. Printing of these materials is projected for the spring of 1973 and will be available to select Commonwealth secondary schools by fall of 1973.

Mini-courses have been developed in Air, Land, Water, and Population and have been piloted in five school districts - Bethlehem, Fox Chapel, West Mifflin, Erie, and Manheim Central. They will be available for select secondary schools by fall of 1973.

Schulkill Valley Nature Center
Mr. Richard James, Executive Director
Hagy's Mill Road
Philadelphia, Pennsylvania 19128
(215) 482-7300

The Schuylkill Valley Nature Center is a non-profit corporation located within the city of Philadelphia. It offers graduate programs in Ecology, Water Conservation Ct. in cooperation with Temple University and teacher experience in cooperation with Pennsylvania State University. Formal instruction is given at the center at the elementary and secondary levels in accordance with a regular teaching curriculum of ten basic programs in outdoor education. Adults are reached through workshops and public lectures. The Center also conducts a summer program for adults in Water Ecology and a similar program for youths in Ecology.

Science, Nature and the Survival of Man

Dr. Irvin T. Edgar
Division Chief, Science Technology
Department of Education
Box 911
Harrisburg, PA 17126

A non-science major student program is a teacher-student interaction over major societal issues that aims to change student attitudes. Program in following school districts: Lehighton School District, Rose Tree Media School District, Central Dauphin School District, Chambersburg Area School District, Shippensburg School District, Tamaqua School District, West Chester School District, Mt. Penn School District, Reading School District, Allentown School District, Penn Manor School District, Millersville School District, Philipsburg-Osceola School District.

Teacher Response to Environmental Demands (TREND)
Mrs. James Miller, Chairman
Philadelphia, Pennsylvania
(215) 646-0529

TREND is a volunteer organization designed to professionally instruct volunteers in methods of teaching conservation and environment to public school children in the upper elementary level. Volunteers are trained at the Schuylkill Valley Nature Center and materials are sponsored by the Philadelphia Committee of the Garden Club.

In 1973, TREND's year, 40 volunteer teachers were sent to 12 public schools involving approximately 1700 fourth (water) and fifth grade (forestry) children.

Western Pennsylvania Conservancy
Conservation Foundation
Carnegie Mellon University

Have developed social study units (4 weeks) 9th grade *Environment and Change*. 12th grade *World Environmental Concern* in classroom trial and will be commercially available in 1974.

SCHOOL PROGRAMS - Not ESEA Title III Funded.

Admiral Perry Area Vo-Tech School
Ecology Program

Dr. Bryan V. Fluck
Ebensburg, Pennsylvania

Concerned with ecology problems in Appalachia, industrial pollution and control, industrial electric generation, plumbing practices, coal mining and agricultural practices.

Allentown School District

Carl Nunley
Environmental Education Coordinator
31 South Pennsylvania Street
Allentown, Pennsylvania 18102
(215) 435-7402 or (215) 432-8347

K-6 program with environmental education site. Teacher in-service.

Asbury Woods Environmental Study Area, K-12

Dick Touvell
Millcreek School District

A school district project of K-12 activities and teacher in-service programs. An early Title III project has resulted in a 40 acre outdoor laboratory.

Bethlehem School District

Robert Zimmerman
Steve Rituper
Bethlehem School District

An integrated 7th grade curriculum program to study the resources of the city.

Brockway Area High School

Two courses (1 period/day, 5 days/week) *Natural Resources*, grades 9-10 *Environmental Crisis*, grades 11-12

An outdoor education laboratory has been developed with 3,000 ft. nature trail with 25 educational stations. Archery range and hunter safety courses.

Conestoga Valley Ecology Club
c/o Department of Biology
Conestoga Valley High School
2110 Horseshoe Road
Lancaster, Pennsylvania 17601

Environmental Education Program.

Connellsville School District

Perry Culver
Curriculum Coordinator

Interdisciplinary K-12 program. Working with Western Pennsylvania Conservancy.

Frick Foundation grant for:

elementary principal in-service; selected elementary teacher in-service with emphasis on environmental education and open classroom; and 7th grade teaching team in-service.

Interdisciplinary team taught 12th grade program called Community Studies; science, social studies and English, 7th grade called Conquest; 4 teacher team; social studies, science, math and English, Three school land sites under development.

Eastern Lancaster County School District
Robert D. Herr

Began as agriculture program in elementary school. Environmental Education interdisciplinary program with teacher in-service and three hour graduate program from Penn State University.

Elizabeth Forward School District
Frank Ciavarra

Nike Site Development for environmental education with consultation from Western Pennsylvania Conservancy.

Emmaus Junior High School
Thomas D. Fegely
660 Macungie Avenue
Emmaus, Pennsylvania 18049
(215) 965-9001

Environmental Education Program

Fishing Creek Valley Elementary School
Marilyn Root

Developed outdoor site on school grounds–used as outdoor classroom by the teachers.

Harrisburg Outdoor Laboratory (Elementary)

Charles A. Rossini, Director
Harrisburg School District
Harrisburg, Pennsylvania 17111
(717) 564-0250 or (717) 234-6131

Harrisburg Outdoor Education Program - *"Outdoor and Environmental Education Center."*

Gettysburg School District
Victoria Weitzel

Site development--water quality studies. Total environment involvement.

Johnstown Area Vo-Tech School
MDTA (Manpower Development Training)

Pilot program in Auto Emissions Control. Itinerant teacher who works with this AVT school and surrounding school districts in conducting the program. The program is for persons presently employed as auto mechanics and their employers. Approximately 2,900 people will be reached in Pennsylvania over a one year period.

Lower Bucks Area Vo-Tech School
MDTA (Manpower Development Training)

Same as above.

Laurel Highlands School District

School site development for environmental education with consultation from Western Pennsylvania Conservancy.

Londonderry Elementary School
Wendell Poppy, Director
260 Schoolhouse Road
Middletown, Pennsylvania 17057
(717) 944-7431

Outdoor Education Program

Mercer County Area Vo-Tech School
Ecology Program

Develop curriculums needed to train secondary education students as Agricultural Environmental Technicians. Identify characterization of pollutants on plants, animals, soil and water. Air monitoring. Natural resources for recreation. Maintenance of sensing equipment. Source and emission inventories. Enforcement programs and procedures.

Northwestern Lehigh School District

Environmental Service Task Force
Mrs. Miriam Haas

Intermediate Unit # 1. In-service program. Environmental task force for service to school districts that request it.

Northwestern Lehigh School District
Mrs. Miriam Haas

Five teachers and 150 sixth grade students in interdisciplinary ecology studies. Developed and landscaped the school grounds for aesthetic, ecological study area.

Five year Rodale project–recycling compost with garbage, etc.

Parkland High School
Edward M. Davis
Orefield, Pennsylvania 18069

The Jungle

Pennridge School District
William S. Woehr
Blooming Glen, Pennsylvania 18944

Environmental Education Program

Pittsburgh School District
Dr. Mary Molyneaux
Curriculum Coordinator

15 hour instructional increment credit course. Proposal for urban resident program, grades 5-9. Supervised by Dr. John Hug and Mr. William V. Kennedy, Western Pennsylvania Conservancy.

Project SANE (Students Appreciate Nature's Environment)

John V. Martz
Susquehanna Intermediate Unit

Resident experience for 130 special education students to be held at Mount Luther Camp. Students and teachers participate together in an environmentally-oriented education project that will include such activities as:

1. Sensory experience in the natural setting
2. Study of simple conservation principles
3. Interaction with knowledgeable resource specialists
4. Implementation in a real life setting of those principles of the democratic process that are generally only talked about in a classroom.

Southern Lehigh School District
Freedom Trail Project

John R. Yeager

Children from Sacred Heart Home and Southern Lehigh School District. The major objective was to provide an experience in environmental awareness and included such conceptual realms as geography, history, nature, culture science, technology, contemporary social and political problems consisting of field trips and/or project work.

Southern Lehigh School District

Robert Csizma, Principal
Liberty Bell School
Coopersburg, Pennsylvania

School site used by elementary teachers in all subjects.

Pennsylvania high schools with *Vo-Ag programs* participate in a cooperative wildlife restoration program sponsored by the Pennsylvania Department of Education and the Pennsylvania Game Commission.

Text and project booklets available to students and teachers. Game Commission Officers work with teachers and students. $1,000 is available for statewide awards.

All high school and area vocational technical schools having agricultural education courses participate in a statewide CONSERVATION AND ENVIRONMENTAL PROGRAM.

This is a project of the Pennsylvania Association of FFA Inc. in cooperation with the Pennsylvania Jaycees organization, the Pennsylvania Association of Conservation District Directors, Inc., the state Conservation Commission, the Pennsylvania Department of Enviromental Resources, the U.S. Soil Conservation Service, and Agricultural Education Section of the Pennsylvania Department of Education.

Pennsylvania High Schools with agricultural education programs participate in a Nationwide by States FFA Chapter program known as BOAC (Beautifying Our American Communities). Sponsored by Lilly Endowment, as a special project of the National FFA Foundation.

Student texts and program booklets are furnished, System of local, state and national awards. Special State Governor's award plaque.

Major program items are:

Why community development is important.
Identifying community resources.
Development and promotion of community resources.
Providing community water, sanitation and solid waste services.
Solving housing needs.
Improving the quality of environment.
Beautifying the community.

Providing recreation facilities and programs.
Providing adequate health and welfare care.
Planning visable communities.

Some additional high school Vo-Ag Departments with Environmental Education programs are:

Derry Area. Westmoreland County Tunkhannock Area, Wyoming County
Annville-Cleona, Lebanon County
Pine Grove Area, Schuylkill County
Lake Ariel, Wayne County

Williamsport Community College Outdoor Education Center and Earth Science Facility

Mr. Joseph Sick

This is a secondary education facility shared with the community college. Facility presently under construction. 169 acre outdoor education center.

featuring:

Dam and reservoir, Spring development, Natural well, Amphitheater, Observation Tower, Picnic shelter, Diversion terraces, Field border, Citizen Lecture Hall, Horticultural Area, Air and Water Test Building, Interpretive Trail, Arboretum, Managed Woodlot, Geology Trail, Forest tree plantations Sewage treatment plant, Plant materials nursery, Agriculture Conservation Area.

Wyalusing School District

H. Glenn Hart
Mansfield State College
Mansfield, Pennsylvania

Teacher workshop in conservation and ecology.

COLLEGE & UNIVERSITY PROGRAMS

CENTER FOR AIR ENVIRONMENT STUDIES
Dr. William J. Moroz, Director
Pennsylvania State University
University Park, Pennsylvania 16802
(814) 865-1415

CAES is an interdisciplinary unit of the University which coordinates research and instruction concerning the interaction of humans and their air environment. The Center's objectives are: to provide educational opportunity through study of the air environment; to attain greater knowledge of the air environment through research and compatible academic programs; to be cognizant of and responsive to the needs of the community regarding the air environment.

CENTER FOR MARINE AND ENVIRONMENTAL STUDIES
Dr. James M. Parks, Director
Lehigh University
Bethlehem, Pennsylvania
(215) 867-5071, Ext. 453

CMES is an interdepartmental research organization which was established to promote interdisciplinary research opportunities in the areas of marine science, ocean engineering, and environmental science for faculty as well as graduate students from several science and engineering departments throughout the University.

Duquesne University
Pittsburgh, Pennsylvania 15219
(412) 434-6000

With an Educational grant from the National Endowment for the Humanities Duquesne University is developing a graduate program which combines the philosophical tradition of existential phenomenology and ecology. The program focuses on the life of a specific community in Pittsburgh, and structured field experience will be integrated into the academic program.

Institute for Community Development
Community Environmental Education Program
Gannon College
Erie, Pennsylvania 16501
(814) 456-7523

Professor Stanley J. Zagorski and Rev. Austin J. O'Toole are environmental scientists there. Part of the program has been exploration of Presque Isle State Park as an E. E. Site.

GREAT LAKES RESEARCH INSTITUTE
Frederick Buggie, President
155 West 8th Street
Erie, Pennsylvania 16501
(814) 453-5068

The Institute is a non-profit organization which is devoted to research of the societal environment. It draws together ad hoc committees and consortia of scientists and engineers from both colleges and industries in order to perform research and development work under special contracts and grants.

INSTITUTE FOR ENVIRONMENTAL STUDIES
Professor Ann L. Strong, Director
University of Pennsylvania
3400 Walnut Avenue
Philadelphia, Pennsylvania 19104
(215) 594-5000

The Institute was established to conduct research in the nature and management of man and his environment. As a school-wide institute, it broadened the scope of such study and offered facilities and administrative services to all departments of the school. Three subsidiary centers - Human Resources Center, Urban Design Center, and Center for Ecological Planning and Design - have been established within the Institute to pursue research in a sub-area of the overall interests of the Institute.

INSTITUTE FOR RESEARCH ON LAND AND WATER RESOURCES
John C. Frey, Director
Pennsylvania State University
Research Building A
University Park, Pennsylvania 16802
(814) 865-3933

The Institute was established in order to aid investigators from many fields to work together in solving our environmental problems. These specialists must consider social, political, and economic aspects of the problems, as well as the usual physical considerations. Three distinct centers of operation have been established within the Institute: Land Resources Center, Water Resources Center, and Regional Analysis Center.

Pennsylvania Soil Conservation Education
Center Consortium

James Gemmell, President
Clarion State College
Clarion, Pennsylvania

The consortium consisting of: Clairon State College, California State College, Edinboro State College, Slippery Rock State College, Indiana University, Sandy Creek Conservancy, Office of Basic Education and the Office of Higher Education, Pennsylvania Department of Education. Ground was broken for the Penn Soil Conservation Education Center on November 18, 1972. The purposes of the Center shall be to develop and operate programs in the areas of:

1. *Basic Education.* Conservation and outdoor education (environmental education) programs for elementary and secondary schools of Pennsylvania.

2. *Teacher Education.* Preservice and inservice teacher education programs in conjunction with number one above as well as other short-term workshops in environmental education for elementary, secondary, and college teachers.

3. *Undergraudate Education.* Short-term workshops and field trips to complement courses offered by the State Colleges as well as other public and private institutions of higher education.

4. *Graduate Education and Research.* Base station and outdoor laboratory for graduate studies in ecology, resource management, geology, limnology, etc., for interested institutions.

5. *Continuing Education.* Noncredit workshops, xconferences, conservation, outdoor education recreation for and by civic groups, youth organizations, and other appropriate nonprofit organizations.

6. *Conservation Demonstration Conference Center.* Conference Center for state and federal agencies and nonprofit organizations for regional and national conferences to observe and study conservation practices and problems.

Pennsylvania State University
College Health Physical Education and Recreation
275 Recreation Building
The Pennsylvania State University
(814) 465-0407

Dr. Betty van der Smissen
Associate Dean for Graduate Study and Research
College of Health Phyisical Education & Recreation

Series of books including outdoor education.

Pennsylvania State University
Outdoor Education Workshops
George Ward
Recreation Building
Pennsylvania State University
University Park, Pennsylvania 16802

1972 Teacher In-service meeting (1 day)

Mifflinburg Schools, Conrad Weiser Schools, Laurel Highlands Schools, Elizabeth Forward Schools

1972 Teacher In-service meetings (2 days)

McKeesport Schools, Sharon Schools, Swarthmore (Ridley) Latrobe Schools, Schuylkill Haven Schools, New Kensington Schools, York, Ogontz, Scranton, Allentown, Wilkes-Barre, Schuylkill.

Project NOW (No Other World)
Dr. John McLain
Clarion State College
Clarion, Pennsylvania 16213
(814) 226-6000

A Northwestern Pennsylvania Project of eight colleges that aims to further the human ecology of Northwestern Pennsylvania through community education. Participating colleges:
Gannon College
Allegheny

Alliance
Clarion
Edinboro
Mercyhurst
Slippery Rock
Villa Maria

NOW. There is No Other World for us to exploit so we must learn to live in dignity in the one NOW. Major thrusts:

1. The environmental crisis and the development of grassroot programs to attain a *"balance of nature"*

2. The human rights revolution and the development of grassroot programs to meet human needs and to attain a *"balance of society"*.

3. The development of grassroots program to implement the democratic process through our government (local, state and national) and other appropriate institution. Work with local organizations to help them,

    a. identify needs;
    b. identify resources that may be used to meet the needs;
    c. consider options;
    d. select and implement programs to use resources to meet needs.

ENVIRONMENTAL ORGANIZATIONS

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
Dr. Clyde E. Golden, V.P. for Research & Scientific Director
19th and the Parkway
Philadelphia, Pennsylvania 19103
(215) 564-3921

The Academy offers environmental education at all levels through its various programs of the natural history museum. It also conducts programs of basic research in limnology, rivers and lakes, and systematic biology. The Academy disseminates research data to the public through its four scientific serials, popular natural history magazine, and through its many leaflets and lecture programs.

AIR POLLUTION CONTROL ASSOCIATION
Alexander Rihm, Jr., President
4400 Fifth Avenue
Pittsburgh, Pennsylvania 15213
(412) 621-1100

The objectives of the Association are to foster control of atmospheric pollution and improve air quality by promoting abatement of air pollution, encouraging development of equipment that economically prevents such pollution, and urging participation of technical, civic, and governmental agencies in pollution prevention activities. It prepares and distributes informative literature as well as offers library facilities to interested citizens for the expression of different viewpoints on air pollution control.

ALLEGHENY COUNTY ENVIRONMENTAL COALITION

A coalition of 100 environmental groups in Allegheny County covering air, water, birth control, noise, and solid wates. Members include Western Conservancy, TB League, League of Women Voters, etc.

American Association of University Women
Pennsylvania Division
Mary T. McCormick, Topic Chairman
144 Kelvington Drive
Monroeville, Pennsylvania 15146

Architects Workshop
Philadelphia Chapter, American Institute of Architects
Augustus Baxter, Executive Director
2012 Walnut Street
Philadelphia, Pennsylvania
(215) 561-2370

The Architects Workshop was established by the Philadelphia Chapter of the American Institute of Architects in October of 1967 to provide architectural services without charge to community organizations and others who would otherwise be unable to afford professional

assistance. In four years, Workshop teams made up of core staff volunteers (architects, interns, planners, engineers, students and related professionals) have undertaken more than 270 community design projects in the Delaware Valley, a third of which are now completed. In the past year the Workshop has established and operated nine satelite miniworkshops in Philadelphia neighborhoods. These branch offices have undertaken an additional 100 projects conducted by full time professional staff and volunteers. Although the non-profit Workshop is a part of AIA/Philadelphia, it enjoys almost complete autonomy, with its own Steering Committee, Community Advisory Board, funds, offices, and administrative staff.

The Workshop has been involved in a series of educational programs with a varity of student types. Inner city youth have been exposed to courses in environmental awareness and architecture conducted by Workshop staff and volunteers in local secondary schools and the miniworkshops. A joint program with Explorer Scouts has been established involving 100 high school students interested in architecture. In 1972 there were 379 projects in a five county area.

Architects and other design professionals have joined Community Design Centers requesting copies of the *"Primer for Community Design Centers"* written and published by the Workshop.

The Workshop has received support from the Ford Foundation and the National Endowment for the Arts among others to continue its program and to start innovative approaches to citizen planning and advocacy.

BEAR RUN NATURE RESERVE
Dr. John Hug, Director
R. D. #1, Box 97
Mill Run, Pennsylvania 15464

Center for Planning, Design, and Construction
17th and Sansom
Philadelphia, Pennsylvania 19103
(215) 563-8517

During the summer of 1971 several professional organizations involved with the building environment, American Institute of Architects, American Institute of Planners, American Society of Landscape Architects, Construction Specifications Institute, General Building Contractors Association, T-Square Atelier, decided that they had common problems, particularly with the flow and availability of information from one professional discipline to another.

This group founded the multidisciplinary organization now known as The Center to effect communication with the public and to foster cooperative growth communication and services of those concerned with planning design and construction of the environment.

COMMUNITY RESOURCES FOR THE DURHAM CHILD DEVELOPMENT CENTER
16th and Lombard Streets
Philadelphia, Pennsylvania

This is an initial community resource list. The goal is to develop a comprehensive directory of people and places in Philadelphia, particularly in the school community, to which the children and teachers can go to learn first hand what is usually learned from the distance of a classroom. It is an illustration of the rich potentialities offered by the child's immediate environment and is a particularly useful tool in format and approach for adaptation by other teachers no matter where they teach.

Aimed initially by the lower years - K-4.

Author: Alicia McGinley

Earth Action Center
Edward Goodstein, Director
6772 Market Street
Upper Darby, Pennsylvania 19082
(215) 352-7950

Formed in January of 1971. Primary purpose is to *"promote and distribute information to the general public concerning their environment and methods available for its improvement . . . and to provide resources to work towards this end."* Early projects consisted of the formation of services within the center itself. A speakers bureau and reference service were established. Through volunteer contact, extended office space was made available enabling the center to expand its services to include a library and bookstore. Recycling centers were employed to further educate the community by distribution of environmental literature at reclamation stations. All activity has been on a completely volunteer basis. *"Current success of the center has been attributed to its flexibility in encouraging a wide range of volunteers to initiate programs of their own interest."*

East Pennsylvania Environmental Concern
Robert Harson, President
Emmaus, Pennsylvania

Group of interested citizens who have been active in seeking solutions for all types of community environmental problems.

Fernbank Environmental Education Center
William Solley, Executive Director
R. D. 2
Pottstown, Pennsylvania 19464
(215) 326-5035

GASP (Group Against Smog and Air Pollution)
Dr. Arnold Kitzes
P. O. Box 5165
Pittsburgh, Pennsylvania 15206
(412) 441-6650

A community environmental education center. Funded under the E.E. Act in FY71. GASP has successfully lobbied for some of the toughest smog control legislation in the country and has now received money to educate the Pittsburgh community to enforce the pollution control codes. It shall do so by means of a comprehensive program of public seminars and conferences, teacher training workshops and over 1000 local community seminars.

GASP plans an E.E. project utilizing trained and coordinated student teams for information dissemination and the mobilization of environmental action in Allegheny County. GASP has been cast into the role of a central clearinghouse for ecological information in the Pittsburgh area.

Project Environmental Rebirth will train 20 select high school students - sophomores and juniors - who will return to their classrooms with the knowledge, leadership techniques, and resources (work kit), to develop a cadre of students dedicated to improving the environment. Back-up material for the training workshop will be a 12-15 minute film, produced by GASP, dealing with general Allegheny pollution problems.

GASP has committees of doctors, scientists, and teachers. They are one of the best examples of what a group of concerned citizens, expecially dynamic women, can do to improve their environment.

Student Chapter of GASP (Group Against Smog and Air Pollution) - the officially recognized student organization on the University of Pittsburgh campus, which operates autonomously but in cooperation with the mother chapter of GASP.

Environment: Pittsburgh (made of students and faculty from the University of Pittsburgh) has begun a pilot project and demonstration model for the Southwestern Pennsylvania area with collecting of samples of industry discharge into the waterways of the region, and their analysis in laboratories.

Great Lakes Research Institute
Robert C. Hansen, Director
Erie, Pennsylvania
(814) 453-5068

The Great Lakes Research Institute has sponsored a *"Lake Erie Congress"* to deal with the problems destroying the Lake. Eighty individuals reflecting all vested interests in Lake Erie from both public and private sectors, participated. The *"Congress"* was organized into two bodies, one which established the nature and extent of the problems. The result of the Congress is a written report distributed to both private and governmental agencies.

Open Space
Dr. Charlotte Dyer
R. D. #2
New Hope, Pennsylvania 18938

Pennsylvania Environmental Council (PEC)
M. Curtin Winsor, President
313 South 16th Street
Philadelphia, Pennsylvania 19102
(215) 735-0966

Established in January 1970, the Environmental Council is the lobbying wing of EPIC interested in legislation and strict standard enforcement of environmental codes.

Pennsylvania Horticultural Society
Ernesta Ballard, Director
325 Walnut Street
Philadelphia, Pennsylvania 19106
(215) 922-4801

The Society has developed an educational program in cooperation with the school district of Philadelphia, the Morris Arboretum of the University of Pennsylvania, the Cooperative Extension Service (Pennsylvania State University), and Delaware Valley Horticultural Council (a federation of 32 horticultural organizations and institutions.)

Pennsylvania Outdoor Education and Conservation Association
(POECA)
Environmental Education Adviser, Secretary
Department of Education
Box 911
Harrisburg, Pennsylvania 17126

Department of Public Information
Dixon Johnson, Director of Public Information
Pennsylvania State University
312 Old Main
University Park, Pennsylvania 16802
(814) 865-7517

Has been involved in dissemination of environmental messages to public as well as to the university audience.

Philadelphia Ecology Action Group
3907 Spruce Street
Philadelphia, Pennsylvania 19104
Carl Simons

Member of Ecology Center Communications Council.

Susquehanna Inter-League Council
Mrs. Edna Isenberg
State College, Pennsylvania

Represents the Leagues of Women Voters throughout the basin.

TB and Health Society of Lancaster County
Mrs. R. K. Reinhold, Enviroment 2000 Coordinator
630 Janet Avenue
Lancaster, Pennsylvania 17601

The Tuberculosis and Health Society of Lancaster County has for many years provided health education information, films, and filmstrips to city and county schools on subjects of respiratory diseases, cigarette smoking and air pollution. Since Earth Day, April 1970, the requests for educational materials on air pollution and other environmental problems have surpassed the traditional health information requests. The Society found a special name for its expanding environmental education program - *"Environment 2000"* - adopted in the spring of 1971.

Three Rivers Improvement and Development Corporation (TRIAD)
A Non-Profit Civic Organization
P. O. Box 886
Pittsburgh, Pennsylvania 15230
(412) 391-8702 and/or 391-8703

Has been undertaking summer programs for youths from the inner city, taking them on excursions to an island in the Allegheny River.

The Tri-County Conservancy of the Brandywine, Inc.
Katherine Barnett, Educational Coordinator
P. O. Box 141
Chadds Ford, Pennsylvania 19317

The Conservancy seeks to develop a framework of action to help shape the future of the Brandywine Valley. Through a continuing program, the Conservancy is involved in such projects as monitoring the water quality of the Brandywine, making the best use of land and water, registering historic sites, and planning for population growth.

Through its new Brandwine River Museum, it helps preserve cultural traditions by holding new art and environmental exhibitions each year from June to October. The rest of the year it serves as a learning and resources center for those interested in art and conservation.

The Conservancy has a program called *"Environmental Assistance"* which involves working with all levels of government and private areas that need help. The Conservancy provides funds, on a matching basis, to develop ordinances, sewer system plans, and for other environmental problem areas.

University City Science Center
Charles Yost, Director for Research
3508 Market Street
Philadelphia, Pennsylvania 19104
(215) 387-2255

Has a strong commitment to regional, environmental, and community programs.

WATER RESOURCES ASSOCIATION OF THE DELAWARE RIVER BASIN
Robert F. Young, President
21 South 12th Street, Room 901
Philadelphia, Pennsylvania 19107
(215) 563-8572

The Association was created in order to arouse interest in water problems of the Delaware River Basin and to provide a means of appraising proposals for developing and utilizing water resources. It offers forums to express views on water issues and to keep tabs on various proposals.

Westmoreland County Environmental Information Center
Westmoreland County Conservation District
415 South Main Street
Greensburg, Pennsylvania 15601

Youth Environmental Action Project Enforcement
Harold Katofsky, Director
625 Brightberry Road
Monroesville, Pennsylvania 15146

The purpose of this organization is to handle environmental complaints from the general public and to have them taken care of with the existing laws. Also to increase the public's awareness of environmental problems.

PUERTO RICO

STATE CONTACT:

Janet Eckerling
Governor's Office
San Juan, Puerto Rico
(809) 722-2011

Frank Torres, Director
Oceanographic Research
Office of Natural Resources
Department of Public Works
Box 8218
San Juan, Puerto Rico 00910

FUNDED PROGRAMS FOR 1972

Cruz A. Matos
Environmental Quality
Board of Puerto Rico
Box 11785
Santurce, Puerto Rico 00910

For the development of a process curriculum for the intermediate level.

UNIVERSITY AND COLLEGE ACTIVITIES

University of Puerto Rico, School of Law
(possible resource of students and faculty)

Institute of Urban Law, School of Law
University of Puerto Rico
Rio Piedras, Puerto Rico 00931
Natural History Society of Puerto Rico
(It assays and maintains the Conservation Trust's Natural Reserves)

GROUPS AND AGENCIES WITH INTEREST IN E.E.

The Conservation Trust of Puerto Rico
P.O. Box 4747
Old San Juan, Puerto Rico 00905
Executive Director: Francisco Javior Blanco
(809) 722-5834
The Conservation Trust was created as a private, charitable institution. It was charged "with the responsibility of helping to preserve and

enhance the natural environment of Puerto Rico and to instruct the public regarding the problems related to preserving and enriching the natural heritage and suggesting possible solutions of problems." The Trust initiated a project of television spot announcements informing and instructing the public on the merits and necessity of enhancing and preserving Puerto Rico's natural resources.

Natural History Society of Puerto Rico, Inc.
P.O. Box 1393
Hato Rey, Puerto Rico 00919
President: John Wheland
(809) 723-6053

American Institute of Architects
Puerto Rico Chapter
(possible resource)

Bar Association, San Juan
(possible resource of panelists, etc.)

Department of Health
P.O. Box 9232
San Juan, Puerto Rico 00908

(Air and water pollution control, solid wastes and radiological health programs.)

Mr. Frank Torres
Associate Director
Oceanographic Research
Office of Natural Resources
Department of Public Works
Box 8218
San Juan, Puerto Rico 00910
(809) 725-6550

Member of National Advisory Council on Environmental Education.
Instructor of teacher training ecology programs in 1966-67.
Has more than 10 publications in biology and ecology. Is acquainted with aquatic and terrestrial ecosystems of Puerto Rico and has developed curriculum material for students in ecology at the secondary and college levels.

Environmental Quality Board
Office of the Governor
Puerto Rico

Organized by the Government of Puerto Rico.

VIRGINIA

STATE E.E. CONTACT:

Mr. Franklin Kizer
Supervisor of Science
State Department of Education
Richmond, Virginia 23216
703-770-2672

Mr. George Burton
Assistant Superintendent for Ad. Field Services
State Department of Education
Richmond, Virginia 23216
703-770-4568

STATE PLAN ACTIVITIES:

The State Environmental Council is in the process of coordinating a statewide plan. In their first report (November, 1971) their stated purpose was to 1) collect information on needs of the State of Virginia 2) develop state and community plans for environmental education 3) prepare and submit legislation on environmental education 4) evaluate plans 5) implement statewide programs. The Council submitted their plan to OEE for funding but it was rejected. The plan would have 1) planned environmental curriculum for all 128 school divisions, 2) held workshops for curriculum supervisors 3) held community involvement projects 4) review science and social studies material in Virginia and other regions.

The Steering Committee of the State Environmental Council is chaired by Fitzgerald Bemiss. It includes members of the Advisory Council, representatives of the education agencies (state and local) and representatives of the Universities.

Since the State Plan was rejected, they are not sure at this point how much of the program can be carried out. Mr. Burton said they are in a tight spot with state funds, but hope to at least continue the planning of environmental curriculum for the school divisions.

House Joint Resolution 198 directs the State Board of Education to determine and implement a program of Environmental Education. The legislative action requires a report to the Governor and General Assembly by December 1, 1973.

LEGISLATION:

The Environmental Quality Act of 1972 was passed. It creates a Department of Natural Resources and a Commission on Natural Resources. The two organizations will carry out the provisions of the act.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

John Trott
Burgundy Farm Country Day School
7710 Old Dominion Drive
McLean, Virginia

This program will develop curriculum materials based on the analysis of a natural area for use at the intermediate level.

SCHOOL PROGRAMS & ACTIVITIES:

Seventh Grade Life Science
Norfolk City Schools
Mrs. Mariana R. Becker
Science Supervisor
735 Pembroke Avenue
Norfolk, Virginia 23507
(703) 441-2381

This is an activity-centered, ecologically oriented life science program which is offered each day to all seventh grade students in Norfolk City Schools. It is funded by the district school system and involves in-service TV lessons twice a week. Teacher workshops are offered in connection with the program.

UNIVERSITY & COLLEGE PROGRAMS & ACTIVITIES:

Department of Environmental Sciences
Brooks Museum
University of Virginia
Charlottesville, Virginia 22903
Robert Dolan, Chairman

The Department of Environmental Sciences offers both undergraduate and graduate programs focusing on the physical environment and its interaction with living systems.

Higher Education Center for Environmental Studies
1020 Kerring Hall
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061
Dr. John Cairns, Jr.

This Center serves to coordinate Environmental activities within the

already existing departments at the University. It also encourages environmental research and maintains an Information Center capable of providing various groups in the state with data needed to cope with environmental problems.

Mr. John F. Batkins
c/o Dr. Robert L. Ake
Department of Chemistry
Old Dominion University
Norfolk, Virginia 23508

A student-originated study: Land Use Planning in Virginia Beach.

Miss Anne H. Lindsey
c/o Dr. Franklin F. Flint
Department of Biology
Randolph-Macon Woman's College
Lynchburg, Virginia 24504

A student-originated study: Ecological Study of Blackwater Creek Basin, Preliminary to its Development as a Park in Lynchburg, Virginia.

GROUPS & AGENCIES WITH INTEREST IN E.E.:

The Nature Conservancy
1800 N. Kent Street
Arlington, Virginia 22209

Environmental Science Workshop
Jefferson National Park
c/o Franklin D. Kizer
Supervisor of Science
State Department of Education
Richmond, Virginia 23216

The Nature Center
Reston, Virginia
Director: Vern Walker

Garden Club
Mrs. George Flowers, Jr.
37 Chatham Square
Richmond, Virginia

The Garden Club is making the curriculum "People and their Environment" available to teachers in Richmond schools.

Environmental Education Council
Shenandoah Region
Box 600
Warrenton, Virginia 22186
Council Chairman: Mrs. Alpha Smith

A private, non-profit organization composed of representatives from 13 school divisions in the 8 counties surrounding the Park, Virginia School for the Deaf and Blind, and representatives of the University of Virginia, Madison College, Shenandoah National Park, and the State Department of Education. The Council grew out of programs developed in Shenandoah National Park using the National Environmental Education Development (NEED) and the National Environmental Study Area (NESA) concepts developed by the National Park Service.

Upper New River Valley Association
Lorne R. Campbell
Smith Bldg., Box 123
Independence, Virginia 24328

Southeast Chapter, Sierra Club
Dr. Carl J. Holcomb
Springfill Farm
Rt. 2, Box 385
Blacksburg, Virginia 24060

Virginia Forests, Inc.
301 E. Franklin Street
Richmond, Virginia

Publishes: "Facts in Brief"

The Committee for Ecological Rebalance
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24060

State Air Pollution Control Board
Room 1106, Ninth Street
Office Building
Richmond, Virginia 23224

State Water Control Board
4010 W. Broad Street
P.O. Box 11143
Richmond, Virginia 23230

Virginia Angler Club
Alexander Wellford
1200 Mutual Building
Richmond, Virginia 23219

Virginia Chapter, American Institute of Architects
Matthias E. Kayhoe
School of Architecture
University of Virginia
Charlottesville, Virginia 22901

Rappehannock League for Environmental Protection
Philip Irwin
Flint Hill, Virginia 22627

Virginia Chapter, American Institute of Planners
Thomas I. Miller
City of Hampton
Hampton, Virginia 23369

Virginia Chapter, The Nature Conservancy
Lt. Col. William A. Houston
5204 Cherokee Avenue
Alexandria, Virginia 22312

Virginia Citizens Planning Association
Kent Clement
School of Architecture
University of Virginia
Charlottesville, Virginia 22903

Virginia Division, American Association of University Women
Mrs. J. J. Dellart, Jr.
2600 Dovershire Road
Richmond, Virginia 23235

Virginia Division, Izaak Walton League
J. Roberts Hicks
7625 Marilea Road
Richmond, Virginia 23225

Virginia Farm Bureau Federation
Hiram Zigler
1307 Castleton Road
Richmond, Virginia 23225

Potomac Chapter, American Society of Landscape Architects
Meade Palmer
57 Culpeper Street
Warrenton, Virginia 22186

Great Falls Conservation Council
H. Graham Morison
301 River Bend Rd.
Great Falls, Virginia 22066

League of Women Voters of Virginia
Mrs. Frances Martin
Rt. 1, Ardwood
Earlysville, Virginia 22936

North River Riparian Association
M. C. Howard
Box 148
Bridgewater, Virginia 22812

SCOPE
Carl Mitchell
ECOS
Old Dominion University
Norfolk, Virginia 23508

Northern Virginia Student Environmental Council
Miss Susan Walther
1804 Collingwood Road
Alexandria, Virginia 22306

Northern Virginia Conservation Council
Kenward K. Harris
Kincheloe Farm
Clifton, Virginia 22024

Zero Population Growth of Virginia
John V. Buffington
P.O. Box 3791
Charlottesville, Virginia 22903

Wise County Environmental Council
Donald H. Askins
P.O. Box 628
Wise, Virginia 24293

Conservation Council of Virginia
Dr. Richard T. Marks, President
200 West Grace Street
Richmond, Virginia 23203

The Council was established in order to provide a structure for cooperation among various citizen groups that are concerned about the natural environmental matters and to assure adequate consideration of such matters in both Richmond and Washington.

Virginia Society of Ornithology
Robert J. Watson, Secretary
2636 Marcey Road
Arlington, Virginia 22207

The Society endeavors to promote the study of bird life in Virginia and seeks the development, protection, and conservation of bird life and other natural resources in the state.

Regional Director, Federal Water Quality Administration
Middle Atlantic Region
918 Emmet Street
Charlottesville, Virginia 22901

Society of Sciences of Tidewater
Chrysler Museum at Norfolk
Olney Road and Mowbray Arch
Norfolk, Virginia 23510

They sponsor field trips.

Environmental Education Council
Shenandoah Region
Box 600
Warrenton, Virginia 22186
Mrs. Alpha G. Smith, Chairman
Frank Cosby, Vice Chairman
Bruce McHenry, Secretary

Peninsula Jr. Nature Museum & Planetarium
Newport News, Virginia

Citizens Against Pollution, Inc.
Business Address: 902 Graydon Avenue
Norfolk, Virginia 23507
(703) 622-6722

Mailing Address: P.O. Box 473
Portsmouth, Virginia 23704

Has an information and referral service, and does active research and participates in vital environmental projects. The President is Michael Norman.

Shenandoah Association for Valley Ecology, Inc.
748 Ott Street
Harrisonburg, Virginia 22801

Environmental Action Committee
Madison College

Extension Environmental Concerns Committee
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24060

This Committee has University wide subject matter resources and is able to obtain feedback on the informational needs of the State from the network of local Extension staffs carrying on educational programs in each county and in many cities.

Nature Center Environmental Education Program
Reston Home Owners Association
Reston, Virginia

Society of Sciences of Tidewater, Inc.
Norfolk, Virginia

ECOS Inc.
Norfolk, Virginia

Citizens Against Pollution, Inc.
Norfolk, Virginia

POSSIBLE RESOURCE PEOPLE:

Laura, Anne and Beth Fletcher
The Environment Committee
Robert E. Lee High School
Churchville Avenue
Staunton, Virginia 24401

Sally Angus
Richmond Ecology Center
2315 Monument Avenue
Richmond, Virginia 22320

Member of Ecology Centers Communication Council

Carmen O'Brien
Community School
Rt. 2, Box 474
Salem, Virginia 24015

Vernon J. Walker
The Nature Center
11404 Washington Plaza
Reston, Virginia 22070

Norris Snydor
Environmental Protection Agency
Crystal City, Virginia

William E. Shands, Executive Director
Central Atlantic Environment Service

A conservationist, has for the past 5 years served as a legislative and administrative assistant in U.S. Senate and House. Lives in Fairfax, Virginia. As an enthusiastic backpacker, he is personally familiar with the central Atlantic area. His experience includes work on preparation of the master plan for development and protection of 60 miles of the Pacific coast.

Dr. James M. Keys
Department of Interior
Federal Water Pollution Control Administration
Bldg. 2, Room 905
1921 Jefferson Davis Highway
Arlington, Virginia 22202

F. J. Ruder
U.S. Department of the Navy
Chief of Staff of Oceanography
732 N. Washington Street
Alexandria, Virginia 22314

Rhoda Ritzenberg
1201 South Courthouse Road
Apt. 818
Arlington, Virginia 22204

Fred M. Packard
4058 Elizabeth Lane
Fairfax, Virginia 22030

Ben O. Osborn
5602 Harding Avenue
Alexandria, Virginia 22311

James E. Overby
7824 Maris Road
Richmond, Virginia 23234

He supplies praying mantis egg cases by mail for controlling garden pests by natural methods rather than insecticides. (A mantis will eat aphids, small caterpillars, and other types of insects). Chinese mantis cases, recommended because of their voracious appetites, sell for $5.00 per dozen. Two dozen cases are usually enough for the average garden. Reduced rates are available for larger orders.

Mrs. Frances Humphrey Howard
2638 Beechwood Place
Arlington, Virginia 22207

Member of Preparatory Committee of 1971 International Youth Conference on the Human Environment.

James R. Harlan
1921 Jefferson Davis Highway
Crystal Mall Bldg. #2
Room 1101
Arlington, Virginia 22202

Robert Dolan
Chairman, Department of Environmental Sciences
University of Virginia
Charlottesville, Virginia 22903

Marion Agnew
President of the Northern Virginia Conservation Council

Bruce Bandurski
Outdoor Ethics Guild
Rt. 2, Box 41-B
The Plains, Virginia 22171

William D. Cooper
8118 Keeler Street
Alexander, Virginia 22309

Alexander B. Bigler
Apt. 167
254 Cedar Lane
Vienna, Virginia 22180

Herbert S. Hiller
Nature Conservancy
1800 N. Kent Street, Room 800
Arlington, Virginia 22209

J. David Almand
Department of Commerce
National Marine Fish. Serv.
1815 N. Ft. Myer Drive
Arlington, Virginia 22209
343-4543

Vance Simonds
Richmond, Virginia

Kenneth Dickson
Assistant Professor of Biology and
Assistant Director
Center for Environmental Studies
Blacksburg, Virginia

Milford C. Howard

A consulting forester from Bridgewater near Harrisonburg. Retired after a 31 year career with the U.S. Forest Service. He has become very active in the areas of stream pollution and sewage treatment. Since forming the North River Riparian Association, he has used legal means to stop polluters and has forced local governments to take long-range looks at their sewage and other planning problems.

Thomas G. Teates
Assistant Professor of Education
Virginia Polytechnic Institute and State University
Blacksburg, Virginia

Dr. Phoebe Knipling
Science Supervisor
Arlington Public Schools
Arlington, Virginia

Dr. Dennis Barnes
Associate Provost for Research
University of Virginia
Charlottesville, Virginia

Dr. Andrew McThenia
Professor of Law
Washington and Lee University

Dean Cyphert
Dean of Education
University of Virginia
Charlottesville, Virginia

Northern Virginia Community College
Annandale, Virginia
Mr. Michael Mullin, Coordinator of Instructional Research

Dr. Charles Morlang, Jr.
Associate Professor of Biological Sciences
Hollins College, Virginia

Mr. Clarence Haley, Assistant Supervisor of Science
State Department of Education
Radford Regional Office
Radford, Virginia 24141

Col. Francis T. Phillips, Jr.
Assistant Supervisor, Title III
State Department of Education
Richmond, Virginia 23216

Dr. James E. Rutrough
Associate Professor of Education
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Dr. Ertle Thompson
University of Virginia
Charlottesville, Virginia 22901

Dr. E. R. Thompson
Director of Instruction
Smyth County Schools
Drawer 639
Marion, Virginia 24354

Involvement of citizen groups, including labor and industry from both urban and rural areas, in promoting and fostering realistic environmental improvement is an important component of this project. Virginia's Governor, The Honorable Linwood Holton, has given his commitment to this concern as evidenced by the formation of an Advisory Council on the environment. The members include:

Mr. Maurice B. Rowe, Commissioner
Department of Agriculture & Commerce
P.O. Box 1163
Richmond, Virginia 23209

Mr. Marvin M. Sutherland, Director
Department of Conservation & Economic Development
911 East Broad Street
Richmond, Virginia 23219

Dr. M. I. Shanholtz, Commissioner
Department of Health
Madison Building
Richmond, Virginia

Mr. James E. Douglas, Jr., Commissioner
Marine Resources Commission
P.O. Box 756
Newport News, Virginia

Mr. William J. Hargis, Jr., Director
Virginia Institute of Marine Science
Gloucester Point, Virginia 23062

Mr. Ernest Jordan
Division of Engineering
State Corporation Commission
Blanton Building
Richmond, Virginia

Mr. John W. Hanes, Jr.
1150 Connecticut Avenue, N.W. #74C
Washington, D.C. 20036

Mr. William R. Meyer, Executive Secretary
Air Pollution Control Board
1106 Ninth Street, Office Building
Richmond, Virginia 23219

Mr. Chester F. Phelps, Executive Director
Commission of Game and Inland Fisheries
Box 1104
Richmond, Virginia 23230

Mr. Douglas B. Fugate, Commissioner
Department of Highways
1401 E. Broad Street
Richmond, Virginia

Mr. Elbert Cox, Director
Commission of Outdoor Recreation
Eighth Street Office Building
Richmond, Virginia 23219

*Honorable T. Edward Temple
Commissioner of Administration
State Capitol
Richmond, Virginia

Mr. A. H. Paessler, Executive Secretary
Water Control Board
4010 W. Broad Street
Richmond, Virginia

Mr. FitzGerald Bemiss
P.O. 1156
Richmond, Virginia 23209

Mr. Charles W. Williams
7618 Midday Lane
Alexandria, Virginia 22306

The Honorable Linwood Holton
Governor of Virginia
State Capitol
Richmond, Virginia

*Mr. Andrew W. McThenia, Jr.
Assistant Professor of Law
Washington & Lee University
Lexington, Virginia 24450

Dr. Dennis Barnes, Associate Provost
The Rotunda
University of Virginia
Charlottesville, Virginia 22903

Mr. Robert Kirby, Director
Division of State Planning & Community Affairs
Madison Building
Richmond, Virginia

*Honorable Andrew P. Miller
Attorney General of Virginia
Supreme Court Building
Richmond, Virginia

* Honorary Members

WEST VIRGINIA

STATE E.E. CONTACT:

Mr. Robert Patterson
State Director of Instruction
Capitol Complex
1900 Washington Street, E.
Charleston, West Virginia 25305
(304) 348-2691

Mr. Robert Seymour
Program Specialist, Science
Capitol Complex
Charleston, West Virginia 25305
(304) 348-2716

STATE PLAN ACTIVITIES:

The State Department of Education did not submit a State plan proposal in 1971 and is not in the process of working on one. There is no formal E.E. staff. The Department of Education is, however, attempting to incorporate E.E. into the public school system. In May, 1971, it held its second annual E.E. workshop at Camp Caesar. Here the Department of Education presented a position paper on E.E. in the State. In August, 1971, the State Department of Education sponsored a state-wide E.E. conference in Parkersburg, West Virginia. Twenty-five teachers together with consultants worked in developing teaching units for intermediate and junior high schools. These units were piloted during the 1971-1972 school year and organized into classroom activity guides during the summer of 1972.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

Dr. Charles Wales
West Virginia University
Freshman Engineering Program
Morgantown, West Virginia 26506

For the development of written supplemental curriculum materials for elementary grades 6-12.

SCHOOL PROGRAMS & ACTIVITIES:

Mr. Ernest Page, Jr.
Superintendent
Mineral County Schools
Keyser, West Virginia 26726

Henry Marockie
Superintendent
Ohio County Schools
Wheeling, West Virginia 26003

Dr. John V. Miller, Jr.
Superintendent
Preston County Schools
Kingwood, West Virginia 26537

Mr. Thomas B. Orr
Superintendent
Logan County Schools
Logan, West Virginia 25601

Mr. C. D. Munson, Jr.
Superintendent
Raleigh County Schools
Beckley, West Virginia 25801

UNIVERSITY & COLLEGE PROGRAMS & ACTIVITIES:

West Virginia Wesleyan College
Buckhannon, West Virginia 26201
Dr. Allen Hamner
Department of Chemistry
304-473-7037

Wesleyan College received $5,000 from the Kellogg Foundation of Battle Creek, Michigan under their new program, "College Resources for Environmental Studies." The money will be used over a three year period to augment the college's library resources for environmental studies. The project grant is shared by the biology, sociology and chemistry departments at the college.

State Conservation Education Workshop for Teachers
West Virginia Conservation Education Council, Inc.
Frank Glover
State Office, S. C. S.
P. O. Box 863
Morgantown, West Virginia 26505

Conservation education workshops for K-12 teachers have been held every summer since 1958. They are sponsored by Soil Conservation Districts and private donations. The State Department of Education provides the workshop staff. About 30 teachers participate each summer.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Region VI, Education Center (PACE)
1210 13th Street
Parkersburg, West Virginia 26101
Director: David E. White

The center has developed some materials relative to E.E.

Appalachian Center for Occupational Safety and Health
Morgantown, West Virginia 26505
Mary Ann Jimerson, Public Information Officer
(304) 599-7136

The Center is a part of the National Occupational Safety and Health Center, a research center. The Appalachian Center for Occupational Safety and Health is a part of HEW with three laboratories.

1) Coal Mine Health (Black Lung) Research and other occupational respiratory disease research.
2) Testing and Research Lab responsible for testing and certification for certain safety equipment required by regulation, published under the Occupational Health and Safety Act of 1970.
3) Chemical Reference Lab.

Harper's Ferry District Environmental Council
Chairman: Clarence Hodgkins
Harper's Ferry, West Virginia 25425

Southwestern Community Action Council, Inc.
724 4th Avenue
Huntington, West Virginia 25701
Executive Director: Mrs. Joan Ross
(304) 525-5151

Environmental Education is not taught as a subject, but hit upon through other subjects. The Council is now working on the beginning of a solid waste (sewage) disposal program.

Mercer County Economic Opportunity Corporation
P. O. Box 3185
Bluewell, West Virginia 24701
(304) 475-2071

The Corporation deals with strip-mining, water pollution, air pollution from mines, garbage problems, etc. It is not an enforcement office, but finds and reports bad conditions to the proper authorities.

West Virginia Natural Resources Council, Incorporated
Grover C. Little, Jr.
Kenova, West Virginia

The Council provides an effective and continuing coordinating structure in working for the conservation and appreciation of West Virginia's natural and historic resources through a program of cooperative action for the cultural, scenic, scientific, educational, spiritual, and economic well-being of our state and its visitors.

Mid-Appalachian Environmental Service
1218 Quarrier Street
Charleston, West Virginia 25301
Norman R. Williams, Executive Director
(304) 342-1177

Children's Museum
746 Myrtle Road
Charleston, West Virginia 25314

Oglebay Institute
Oglebay Park
Wheeling, West Virginia 26003
Nature Education Director: John Christie
(304) 242-6855

The Institute is an educational and cultural organization in the Ohio Valley area. It supports a Nature Education Department at Brooks Nature Center. The Director's background includes work as an outdoor education specialist.

Citizens for Environmental Protection Inc.

A non-profit citizens organization dedicated to the purpose of highlighting environmental problems, primarily in the Kanawha Valley, and providing action solutions to those problems.

The Tech Foundation, Inc.
Montgomery, West Virginia

Arm of West Virginia Institute of Technology "is strongly motivated to assume a multi-disciplined approach to community programs geared to finding and implementing solutions to environmental problems. Tech's activities in the field have included a faculty-student Upper Kanawha Valley Committee on Environmental Pollution which was involved in obtaining a satisfactory schedule for installation of air pollution education equipment at Union Carbide's ferroalloy plant

at Alloy, West Virginia, an engineering feasibility study of sewage treatment and disposal for a 30 mile area along the Kanawha River, and a variety of other environmental studies and student programs.

Intra City Council of Neighborhoods

A non-profit corporation made up of representatives from low and moderate income neighborhoods in the city of Charleston, dedicated to improvement of member neighborhoods, including solutions to environmental problems related to their urban, inner-city locations.

Harrison County Elk Creek Pollution Committee
c/o Sandy Denmark
Box 35
Nutter Fork, West Virginia 26301

This committee is educating the young generation about E.E. There are 150 active members in this active organization. They conduct classes, police streams, do their part to control pollution, and have a stream cleaning program.

Appalachian Research and Defense Fund, Inc.
Charleston, West Virginia

"A legal services organization with a strong community organizational component." ARDF engages in Environmental Litigation.

Air Pollution Control Commission
1558 Washington Street
Charleston, West Virginia

Department of Natural Resources
1800 Washington Street, East
Charleston, West Virginia 25305

Mid-Appalachian Environmental Service
"Affiliate of the Conservation Foundation, Washington, D.C. whose purpose is to provide environmental information to organizations and individuals in the Mid-Appalachian region." The Service has a city-state desk which gathers information regarding environmental legislation and activities of, in assisting low income communities and groups trying to implement solutions to environmental problems, ranging from obtaining an adequate safe supply of drinking water to forcing surface mining companies to obey the state's reclamation laws. To assist community groups, ARDF has contacted and compiled a file of technical environmental experts who can provide the knowledge and education frequently required to overcome complex environmental problems.

Jefferson County Conservation Education Committee
G. Warren Mickey
Coordinator of Special Programs
P. O. Box 728
Charles Town, West Virginia 25414

Jefferson County citizens formed a Conservation Education Committee to support the incorporation of an environmental center in their new school. The center project proposal to E.E. was not funded, but the county hopes to initiate part of the program on funds available.

Region VI Pace Education Center
1210 13th Street
Parkersburg, West Virginia 26101
David E. White
(304) 485-7571

Under ESEA Title III, West Virginia has set up Regional Pace Centers throughout the State. The Region VI center which coordinates educational efforts of six counties, has given special concern to E.E. The supervisors and other educational personnel of the Region have been meeting on a monthly basis to plan approaches to a variety of E.E. needs of the area. They helped sponsor the E.E. Workshop at Camp Caesar in May 1971 and the teacher writing conference in Parkersburg, July-August, 1971.

Children's Museum and Plantarium at Sunrise
746 Myrtle Road
Charleston, West Virginia 25314
Mrs. Richard Glaser, Director
(304) 344-8035

During the summer, the Children's Museum offers week-long outdoor education programs to educationally deprived children. The Museum also sponsors an awards program which is designed to encourage students in Kanawha County to cooperate with their immediate community on a project in environmental education.

It is a non-profit organization now having nature and ecology classes on a registration basis; it also conducts workshops and classes. The major ecological display is "Tricycle Trip" dealing with food, air, and water.

WMUL Television
Marshall University Telecommunication Center
Huntington, West Virginia 25701
Dr. Hollinger
(304) 696-6630

WMUL is an educational TV station operated by the West Virginia Educational Broadcasting Authority. In addition to public TV programs, it broadcasts in-service programs to schools in five counties of southeast West Virginia. At the present, WMUL is working on a series, "Under the Hills", which is several programs dealing with environmental problems.

RESOURCE MATERIALS AVAILABLE:

Curriculum guides available from:
Region VI PACE Education Center
1210 13th Street
Parkersburg, West Virginia 26101

POSSIBLE RESOURCE PEOPLE:

Mrs. Richard Glaser
Children's Museum at Sunrise
746 Myrtle Road
Charleston, West Virginia 25314

Mr. John Christie, Director
Nature Center, Oglebay Institute
Wheeling, West Virginia 26003

A non-school based program.

George Lippert
Oglebay Institute
Wheeling, West Virginia 26003

Mr. Jim Massey, Officer in Charge
Environmental Study Area Program
National Park Service, US Dept. of Interior
Harpers Ferry, West Virginia 25425

Tom Carroll
Mid-Appalachian Environmental Service
Charleston, West Virginia